

ARSYNCO, INC.
SUBSIDIARY OF ACETO CHEMICAL CO., INC.
FOOT OF 13TH STREET
CARLSTADT, BERGEN COUNTY
EPA ID NJD044688935

#### GENERAL INFORMATION AND SITE HISTORY

Arsynco is located on 12.3 acres in Carlstadt, Bergen County. The site is northeast of the intersection of Routes 17 and 20 in a densely populated residential/commercial area. The plant is constructed on former swampland drained by Berry's Creek, a tributary of the Hackensack River. While much of the former swamp has been filled for industrial development, some open swamp area still exists adjacent to the site.

Commercial Solvents was one of the first occupants of the site dating back to 1905, followed by Fries Brothers in 1932. In the late 1950's, the site was sold to the Inmont Corporation and in 1969 it was purchased by Arsynco, Inc.. Arsynco is owned by the Aceto Chemical Company, Inc., a holding company which is engaged in the import and export of chemicals.

#### SITE OPERATIONS OF CONCERN

Arsynco has been in operation at the site from 1969 to the present and has been involved in batch chemical manufacturing of specialty chemicals. Arsynco's primary products are organic chemical intermediates, pharmaceuticals, amines, organic chlorides, and hair dyes. They also repackage chemicals for Aceto. A 1980 Hazardous Site Mitigation Administration report states that hazardous substances used in manufacturing processes include 1,1,1-trichlorethane, xylene, methanol, phenol, naphthol and pyridine. These solvents are used as chemical carriers and do not become part of the final product. Various chemical reagents (depending on the batch) are mixed with the appropriate solvents and reacted in vessels. When the reaction is complete, the products are separated and the spent solvents are removed. The solvents are either directly distilled or temporarily stored in tanks or drums prior to recycling into the system.

The waste products of the operation are still bottom residues, solvents, and off-spec products. Many of these waste products are stored in 55-gallon drums in several drum storage areas on site. A RCRA inspection conducted on November 25, 1987 by the Division of Waste Management revealed that the drum management practices were very poor. Some drums were leaking and not properly closed. Many drums were labeled improperly or not at all.

There are three tank farm areas on site which all have a secondary containment wall surrounding the tanks. The tank farm adjacent to building #19 is made up of 4 holding tanks which contain hydrochloric acid and sodium hydroxide. This area is lined with concrete. The other two tank farms are located adjacent to Building #2. These 13 tanks contain solvents, fuel oil, and gasoline. Both areas are lined with soil and show visible signs of contamination.

#### GROUNDWATER ROUTE

The site is located within the Piedmont physiographic province. The principal geologic body in the area is the Brunswick Formation of the Triassic Era which consists primarily of grey feldspathic sandstone,

conglomerate, and red shale. Glacial till, a heterogeneous mixture of sand, silt, clay, gravel, cobbles, and occasional boulders, overlies the Brunswick Formation.

The Brunswick is an important aquifer in the area of the site. There are numerous municipal and industrial wells that tap the formation for water supply.

There are no monitoring wells on site. There is one supply well which is used for non-contact cooling water at a rate of 112,000 gallons per day. All other water is supplied by the Hackensack Water Company at a rate of 37,000 gallons per day. The Hackensack Water Company draws its water supply from the Oradell Reservoir located in Bergen County.

The potential for groundwater contamination does exist since there has been observed soil contamination on site which could migrate to groundwater.

Arsynco does not hold a Discharge to Groundwater permit.

#### SURFACE WATER ROUTE

The site is mostly flat with an elevation of 5 to 10 feet above mean sea level. It was built on former swampland drained by Berry's Creek, a tributary of the Hackensack River. Stormwater run-off from the site is channeled directly to Berry's Creek which in turn flows through a tidal wetland to the Hackensack River. The property is on a floodplain and minor flooding occurs on an average of twice a year.

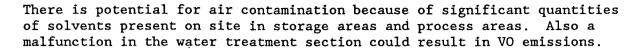
Currently, Arsynco has two process water discharges regulated by a NJPDES permit # NJ0030970. The 001 discharge, averaging 5,000 gallons per day, consists of non-contact cooling water overflows from an onsite reservoir/pond through an outfall to Berry's Creek. The source of water utilized for cooling is an on site well which is pumped to the reservoir/pond. This water, in turn, is pumped to an elevated water tower which provides gravity flow through pipelines to the facilities process equipment. The spent cooling water is returned to the reservoir.

Discharge 002 leads to the Rutherford Carlstadt Joint Meeting Sewage Authority and is regulated under a NJPDES-SIU modification permit. All of Arsynco's process wastewater flows into an onsite treatment pit that is lined with brick. The influent is first skimmed to remove the solvent layer, pH adjusted, clarified, stripped of VOs (in an air stripper) and discharged to the sewer.

Confirmed contamination of surface water (Berry's Creek) has been observed on several occasions. Several NOVs have been issued for exceeding permit limitations for total volatile organics and petroleum hydrocarbons. In February 1989, the Bureau of Planning and Assessment (BPA) sampled the surface water and detected mercury and toluene above action levels.

#### AIR ROUTE

Arsynco currently has 54 permitted stacks listed under plant ID 00098. These permits cover tank vents, reactor vents, and boiler stacks. (See Attachment W). They have currently been denied a permit for an air stripper because it exceeded the amount of VOs emitted per hour. A new state of the art emissions control device was recommended.



#### SOIL

There have been two soil sampling episodes conducted at Arsynco. The first one occurred in December 1985 and was carried out by E.C. Jordan of Portland, Maine under contract with the NJDEP as part of the Phase II Dioxin Site Investigation. Fiften soil samples were collected and analyzed for 2,3,7,8-TCDD. The isomer was not detected in any of the samples analyzed. The second one occurred in May 1988. This was conducted by NJDEP Bureau of Metro Enforcement for enforcement purposes. Three soil samples were collected in the area of the tank farm near Building #2. All three samples contained significant concentrations of toluene ranging from 1300 to 17,000 ppm and ethylbenzene ranging from 1800 to 7100 ppm. The results confirmed that the New Jersey Spill Compensation and Control Act had been violated and a Notice of Violation was issued for an illegal discharge.

On February 1, 1989 the BPA performed a Site Inspection at Arsynco. Eight soil samples (including background) one sediment and one surface water sample was collected and analyzed for the Target Compound List plus 30 peaks. All non-aqueous samples were collected at a depth of 0 to 6 inches except for Soil #2 which was collected at 1 to 2 feet. The surface water sample was collected just below the surface of Berry's Creek which runs through the northeast section of Arsynco's property. Analytical results revealed volatile organic compounds, metals, pesticides, and phthalates above cleanup levels. The specific results are included in the summary of data section.

Soil contamination has been confirmed in several areas throughout the site.

#### DIRECT CONTACT

The potential for direct contact is low as the site is partially enclosed by a fence. Two sides that remain open are adjacent to the marsh.

#### FIRE AND EXPLOSION

The potential for fire and explosion does exist with the abundance of solvents used at the facility.

#### ADDITIONAL CONSIDERATIONS

There is the potential for damage to the flora, fauna, and off site property as past discharge monitoring reports have shown Arsynco to be outside permit limitations for total volatile organics (TVOs) and petroleum hydrocarbons.

#### ENFORCEMENT ACTION

In June 1984, the Division of Waste Management issued an Administrative Order to Arsynco for numerous violations of the Solid Waste Management Act including illegal discharges and poor drum handling practices.

In August 1987, the Division of Environmental Quality issued an Administrative Order and Notice of Civil Administrative Penalty Assessment for violations of the Air Pollution Control Act for operating equipment without fulfilling all conditions of their existing permit.

In April 1988, the Division of Environmental Quality issued an Administrative Order and Notice of Civil Administrative Penalty Assessment to Arsynco for violations of the Air Pollution Control Act for altering existing equipment without obtaining the required permit.

In October 1988, the Division of Water Resources issued an Administrative Order to Arsynco for violations of the Water Pollution Control Act for exceeding their NJPDES permit limitations for TVOs.

#### SUMMARY OF SAMPLING DATA

Sampling date:

May 15, 1985

Sampled by:

E.C. Jordon

P.O. Box 7050, DTS Portland, Maine 04112

Samples:

Sixteen soil samples to be analyzed for 2,3,

7,8 - TCDD (Dioxin).

Laboratory:

Environmental Testing and Certification

Corporation (ETC) Edison, New Jersey

Sample description:

Most samples were collected within the

surficial soil stratum (0-6 inches).

Contaminants detected:

The dioxin isomer was not detected in any of

the surface soil samples collected.

QA/QC:

A duplicate sample and a combined

field/equipment blank was submitted for

analysis.

File location:

Division of Hazardous Waste Management, Metro

Field Office.

Sampling date:

May 5, 1988

Sampled by:

NJDEP - Division of Hazardous Waste

Management - Metro Bureau of Enforcement.

Samples:

Three soil samples were analyzed for purge

and trap volatiles.

Laboratory:

National Environmental Testing Inc.

1501 Grandview Avenue

P.O. Box 248

Thorofare, New Jersey 08086

609-848-3939

Sample description:

The samples were collected within the

solvent tank farm.

Contaminants detected:

SAMPLE NUMBER	CONTAMINANT/CO	ONCENTRATION	(ppm)
Soil 1	Toluene Ethylbenzene	2,000 3,400	
Soil 2	Toluene	17,000	
	Ethylbenzene	7,100	
Soil 3	Toluene Ethylbenzene	1,300	

QA/QC:

A trip blank and formal NJDEP QA review was

performed.

File location:

Division of Hazardous Waste Management Bureau of Hazardous Waste Engineering.

Sampling date:

February 1, 1989

Sampled by:

NJDEP - Bureau of Planning and Assessment

Samples:

Eight soil samples, one sediment and one surface water sample to be analyzed for the

TCL.

Laboratory:

VERSAR Laboratory 6850 Versar Center Springfield, Va 22151

703-750-3000

Sample description:

The soil and sediment (collected from a trench leading to Berry's Creek) samples were collected at the 0-6 inch level. The surface water sample was collected just below the

surface of Berry's Creek.

### Contaminants detected:

SAMPLE NUMBER	CONTAMINANT/CONCENTRATION (PR	om)
Soil 1	toluene	17
	. Total xylenes	.7
		520
	mercury 1	1.9
Soil 2		900
	<b>.</b>	150
	1,2,4-trichlorobenzene	68
	Aroclor 1260	16
		9.2
	<i>y</i>	2.1
	zinc	364
	cyanide 41	1.1
Soil 3	aroclor 1248	91
	mercury	3.2
Soil 4	<i>J</i>	370
	<i>y</i>	100
	isophorone	32
	Di-N-butylphthalate	71
	bis-(2-ethylhexyl)phthalate	72
	Aroclor 1248	100
	Aroclor 1260	85
	lead	402
	mercury	3.6
Soil 5	acetone	160
	toluene	120
	total xylenes	2.9
	bis(2-ethylhexyl)phthalate	26
Soil 6	acetone .(	042
	4-methyl-2-pentanone .0	040
		160
	total xylenes	140
	<b>.</b>	390
·	bis(2-ethylhexyl)phthalate	45
	Aroclor 1248	12
		5.6
		228
		425
		2.5
	<b>y</b>	369
		159
	C) unit uc	

Soil 7	Aroclor 1248 mercury	20 6.5
Soil 8 (Background)	lead mercury	392 2.1
Sediment 1	ethylbenzene total xylenes Aroclor 1248 chromium mercury	1790 14,200 1.3 383 2.7
Surface Water 1	acetone toluene 2-methylphenol benzoic acid bis(2-ethylhexyl)phthala mercury	2.4 1.4 .015 .210 te .012

QA/QC:

One background (off site) sample was collected and analyzed for the TCL + 30 compounds. A trip and field blank was prepared and formal NJDEP QA review was

performed.

File location:

NJDEP/DHWM/BPA

#### PRIORITY DESIGNATION

The site is designated a low priority because of the observed soil, sediment, and surface water contamination.

### RECOMMENDATIONS

The Bureau of Planning and Assessment is transferring this case to the Bureau of Compliance and Technical Services for a responsibile party investigation under State authority.

### NEW JERSEY STATE DEPARTMENT



## OF ENVIRONMENTAL PROTECTION

## APPLICATION FOR PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT

TO: Ne	w Jersey State Department of Environmental Protection	on the state of th				
Bu	ireau of Air Pollution Control	الأرام أوام أماني	er en			
	O. Box 1390 enton, New Jersey 08625	Date March	16, 1973			
	Use instructions,	Air-D13				
1. Full Business Name Arsynco, Inc.						
	2. Address of equipment and/or control apparatus:  Foot of 13th Street, Carlstadt, Bergen County  No. Street Municipality County					
Sec. A						
	3. Location on premises (Bldg., Dept., area etc.)					
	4. Namre of Business Chemical Manufac	turer	SIC No			
	1. New process equipment and new air pollution con-	trol apparatus				
	New air pollution control apparatus on existing pr					
	New process equipment with no control apparatus					
Sec. B	Other:					
	2. Prior permit numbers covering this installation. Spec.	ify. None				
٠.	3. Estimated starting date March 1973 Esti		h 1973			
	nh a a h a a a a a a a a		1.1			
-	1. Description of operation Phosphorous pent thio acetic acid hydrochloride t					
			toride Hydrochiorid			
	2. Identify process equipment <u>S-5</u> , (See 3. Raw materials (names) <u>Methylene</u> chloride	acetone, phosi	phorous penta-			
Sec. C	chloride, hydrogen chloride, ace					
	i	•	1 ACTU			
	Total pounds per hourTotal	pounds per batch				
ľ .	4. Operating procedure:					
	Continuous: hrs. per day days p	·				
	Batch: 48 hrs. per batch 1 - 2 Batche	sper day A week				
	Physical and chemical nature of air contaminants whi	ch must evolve from operati	on and be emitted into the			
_	Physical and chemical nature of air contaminants which must evolve from operation and be emitted into the open air:					
***	AMOUNTS OF CONTAMINANTS  AIR CONTAMINANTS  With Control Apparatus Without Control Apparatus					
	Nadana Chilantia		20 lbs./hr.			
Sec. D	Hydrogen Chloride	<pre></pre>	20 105./111.			
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## State of New Jersey

### DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY

JOHN FITCH PLAZA, P. O. BOX 2807, TRENTON, N. J. 08625

### ORDER

Го:	Arsynco	Incorp	orated	•
	Seymour	Mann,	Register	ed Agent
	P. O. Bo	8 XC		
••	Carlstad	lt. New	Jersey	07072

Plant Identification No. 00098
Violation Occurred on Premises
Known As:
Foot of 13th Street, Lot 1E, Block
146, Carlstadt Borough, Bergen
County, New Jersey

Re: N.J.A.C. 7:27- 8.3 (a) 2

WHEREAS, the State Department of Environmental Protection has determined by investigation(s) or inspection(pursuant to the Provisions of the New Jersey Air Pollution Control Act that on	s) made
you did violate Title 7, Chapter 27, Subchapter, Section	, of
the New Jersey Administrative Code.	

The investigation(s) discloses the use of the equipment known as 5-219 and S-247 without the control devices (controls by-passed) in use or functioning properly in accordance with Permit (P-17208/22570 & 1) and Certificate (CT-17208/22570 & 1) on the premises identified above.

Dated: March 17, 1980

cc: Local District
Field Office

Carlstadt Borough Newark Edward J. Londres Assistant Chief Bureau of Air Pollution Control

**CERTIFIED MAIL** 



## NEW JERSEY STATE DEPARTMENT OF HEALTH. P. O. Box 1540, Trenton, New Jersey 08625

# Water Pollution Control Program SURVEILLANCE REPORT

Municipality:	Carlstadt	Co	unty: $\mathcal{B}_{c}$	igen		Waters	shed:	Huc	kin	sack
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Licensed Operato				_ <del></del>						
Person Interview	red:			Signature:						
Nature of Wastev	water: Ind U	145te .	- · · · · · · · · · · · · · · · · · · ·							
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There is potential for air contamination because of significant quantities of solvents present on site in storage areas and process areas. Also a malfunction in the water treatment section could result in VO emissions.

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# STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES



# NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM SUPPLEMENT TO THE STANDARD APPLICATION FORM CP # 1

# APPLICATION TO DISCHARGE WASTEWATERS AND RESIDUALS TO THE STATE'S LAND AND WATER

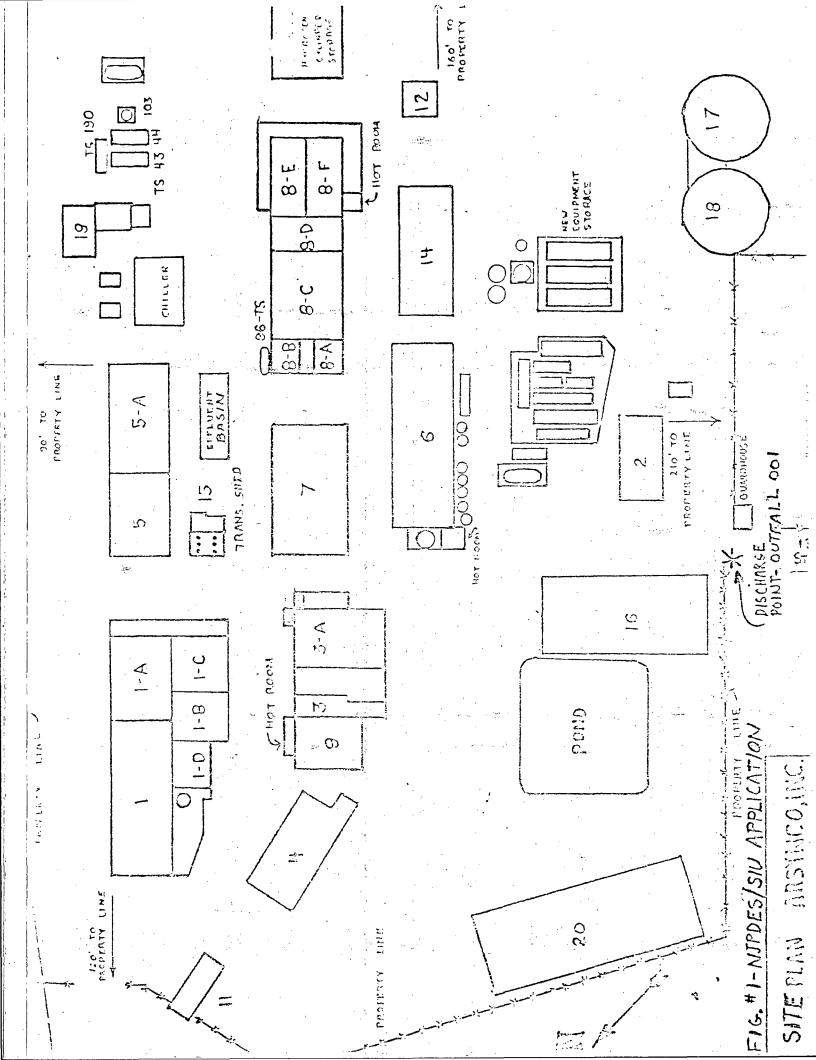
1. Circle the letter(s) for those discharge activities presently conducted or to be conducted as part of the facility's operation.



Answer all questions. Please print or type,

٠.	<ul> <li>(Seasonal facility operation shall be considered as a present operation.)</li> <li>In the space provided, indicate if there is an existing NPDES or NJPI</li> <li>In the space provided, indicate if this application is for a "new" sour a current permit.</li> </ul>		
	DISCHARGE ACTIVITY YES/NO	NEW, EXISTE	NG, RENEWAL
	A. Municipal Surface Water Discharge B. Industrial/Commercial Surface Water Discharge C. Thermal Surface Water Discharge D. Land Application of Sludge and Septage E. Land Application of Industrial Waste Residues F. Landfill Wastes G. Spray Irrigation H. Overland Flow I. Rapid Infiltration J. Surface Impoundment K. Underground Injection Discharge to a Domestic Treatment Works	EXISTIN	<u></u>
<ol> <li>3.</li> </ol>	<ol> <li>Facility: Latitude 40° 50 min. 12 sec. Longitude 74°</li> <li>Name and address of applicant's parent corporation, subsidiary, or part (Attach additional sheets if necessary.)</li> <li>ACETO CHEMICAL CO., INC.</li> </ol>		(212) 898-2300
	Mailing Address 126-02 NORTHERN BOULEVARD		Zip Code 11368
4.	Name MR. DENNIS SPACE		y operation.) (201) 933-2323
	Address of Operator FOOT OF 13th STREET  City of Town CARLSTADT State	NEW JERSEY	Zip Code 07072
5.	5. Is the facility a Federal Facility  State Facility	en e	
	☐ Public Facility (a local government subdivision ☐ Private Facility	a <b>)</b> 	en e

<u>SIC</u>	PRODUCTS OR SERVICES PROVIDED
2865	ORGANIC INTERMEDIATES
f applicable, identify all administrative orders, temporary or ivil penalties, or criminal actions concerning pollution issued	
ENFORCEMENT ACTION DAT	E OF ACTION RESULT
NONE	
If applicable, list all locations involved in the storage of solid application is being made and the ultimate disposal sites of some	
application is being made and the ultimate disposal sites of sopermitted.  STORAGE SITE(S)	
application is being made and the ultimate disposal sites of sopermitted.	olid or liquid wastes generated by the facility being
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application is being made and the ultimate disposal sites of sopermitted.  STORAGE SITE(S)	olid or liquid wastes generated by the facility being
application is being made and the ultimate disposal sites of sopermitted.  STORAGE SITE(S)  SEE ATTACHED	ULTIMATE DISPOSAL SITE(S)
application is being made and the ultimate disposal sites of sopermitted.  STORAGE SITE(S)  SEE ATTACHED  If applicable list the amount of sludge	ULTIMATE DISPOSAL SITE(S)  generated per month and type of treatment
application is being made and the ultimate disposal sites of sopermitted.  STORAGE SITE(S)  SEE ATTACHED	ULTIMATE DISPOSAL SITE(S)  generated per month and type of treatment
application is being made and the ultimate disposal sites of sopermitted.  STORAGE SITE(S)  SEE ATTACHED  If applicable list the amount of sludge	ULTIMATE DISPOSAL SITE(S)  generated per month and type of treatment
application is being made and the ultimate disposal sites of sopermitted.  STORAGE SITE(S)  SEE ATTACHED  If applicable list the amount of sludge if any, given to the sludge just before	ULTIMATE DISPOSAL SITE(S)  generated per month and type of treatment its disposal.
Amount of Sludge Generated	ULTIMATE DISPOSAL SITE(S)  generated per month and type of treatment its disposal.  Type of Sludge Treatment



PPLICATION FOR PERMIT TO DISCHARGE TO A DOMI	ESTIC	TRE	ATMENT	WORK
--	-------	-----	--------	------

. Facility Name	ARSYNCO, INC.			2. D.E.P. ID No. (Office	cial Use Only)
. DTW Used	JOINT MEETING	Sewer System Own CARLSTADT	ner	Treatment Plant Owne CARLSTADT - RUTHE	RFORD-EAST
a. Disci		Iding Floor Drains F	IG. 2 c. Line	Drawing FIGURE	RUTHERFURD 3
	s and Treatment (For Each Discharge to DT			C. TREATMENT	
OUTFALL (Name or No.)	1. Operations (List)	2. Average Flow (Include Units)	1. [	Description	2. Codes From Table 1
	<sup>i</sup> Sanitary Waste water	184.5 GPD			<b>4</b> E
001	Condensate & Boiler Blowdown	20,629.3 GPD	Effluent	Basin '	4E
. •	Water Softener	1,125.2 GPD	Effluent	Basin	4E
	Storm water	12,748.6 GPD	Effluent	Basin	4E
	Chemical Manufacturing - Was & Flush Reactors, Stills	1,906.9 GPD	Effluent	Basin	1U, 1H, 4E
. ! 	Chemical Manufacturing - Raw Materials	283.4 GPD-	Effluent	Basin	1U,.1H, 4E
	Unaccountable - Municipal and well waters	103,219.2 GPD	Effluent	Basin	1U, 1H, 4E
	Direct Contact well water - Vacuum Jets	9,476.8 GPD	Effluent	Basiń	1U, 1H, 4E
	- Liquid Ring Vacuum Pump	7,076.8 GPD	Effluent	Basin _	1U, 1H, 4E
•	Laboratories	1,409.7 GPD	Effluent	Basin .	1U, 1H, 4E
•					
5. Intermittent	Flow (Complete if any discharge described	in 5. above is interm	ittent or seasona.	//	
OUTFALL (Name or No.)	OPERATIONS CONTRIBUTING FLOW	FREQUENCY	DURATION	FLOW RATE	TOTAL VOLUM
001	Sanitary waste water - Water softener	Day Shift Once per Week	8 hours 3 hours	2 GPM 25 GPM	960 Gal 4,500 Gal
	Storm Water Chemical Manufacturing	Say 1/2" per hour	•4_hours	473 GPM	113,571 Gal
	a) Reactor washing & flushin b) Raw materials		n 3.6 hours	14.5 GPM	867 Gal
	Vacuum jet well water Laboratories	12.5% operat 33.3% operat			13,500 Gal 2.123 Gal
7. Maximum Pr	oduction A. Does an effluent guide to your facility?		uigated under Sec		
B. Are the limit	tations in the applicable effluent guideline e				ion)?
C. If answer to	7B is Yes, list quantity which represents a reable effluent guideline.	easonable measure o	f actual producti	on, in terms and units	used
QUANTITY PE		OPERATIONS, PRO	DOUCT MATERIA	L ETC.	AFFECTED OUTFALL
		in the state of th	egen e.		
				·	
		<u> </u>			

\*Assuming 5 days per week if continuous operation because

## 8. STORAGE SITE(S)

- a. Drum Storage Area 4 drums of solvent per week from effluent basin are steam stripped and the residue put in waste drums which are stored in hazardous drum area.
- o. Solids from effluent basin when needed, the basin is cleaned and the solids tested. They are then landfilled following all local, state and federal regulations. The basin has not been cleaned since 1981.
- c. Hazardous waste solids are kept in the hazardous waste area. We do not store liquid waste; we recover our solvents for reuse.

## ULTIMATE DISPOSAL SITE(S)

CECOS International

# STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO: Mr. Peter Lynch through Mr. George Bronson

FROM: Mr. Greg Isbrecht & J

SUBJECT: Arsynco Incorporated - Site Inspection

13th Street Carlstadt, NJ

F ile

DATE: July 7, 1977

On June 28, 1977, this writer inspected the premises of Arsynco, Inc., Carlstadt, NJ. Mr. Tyle Leach, Arsynco, conducted this writer through the plant premises.

During this site inspection two noteworthy conditions were observed by this writer. First, to the east of Arsynco's production building #19 exists at least two shallow channels so placed by Arsynco to convey rainfall from the immediate area located between building #19 and building #8 to Berry's Creek. This in itself would present no problem to this writer if it were not for the fact that repeated chemical spills occurring in this ceneral area are allowed to drain unchecked into Berry's Creek via these channels. There was continued evidence of a recent spill that had occurred at a small tank farm adjacent to building #19. During previous site inspections Arsynco personnel had informed this writer said spills were sulphuric acid treated only with soda ash to neutralize same. There was a clear, distinct trail of yellow material from the spill site to one of the aforementioned vard drains into Berry's Creek. Mr. Richard Klein, Arsynco, had noted during previous visits that no attempt was made by Arsynco to contain or clean up sulphuric. acid spills once they occurred, only that the soda ash was applied. The inspection this date revealed the conditions at the sulphuric acid spill site had not changed. It was apparent no effort was made to collect any of the materials.

Arsynco representatives have conveyed a general unconcerned attitude regarding housekeeping at its plant. In particular, the company seems totally disinclined to require its employees to clean up any of the numerous small chemical spills that are obvious to outside observers inspecting the premises. This writer gathered samples from one of the yard drains and a reportedly disconnected french drain coming from building #19. It is this writers understanding that propylene imine is produced in building #19.

The second item of interest was a spent toluene spill of an undetermined quantity purported by Arsynco representatives to have taken place during the midnight shift of this date. This writer questioned Mr. Richard Klein, plant saftey engineer, whether he or any other Arsynco employee had notified N.J.D.E.P. of the spill. Mr. Klein stated that to his knowledge neither he nor anyone else had so notified D.E.P.

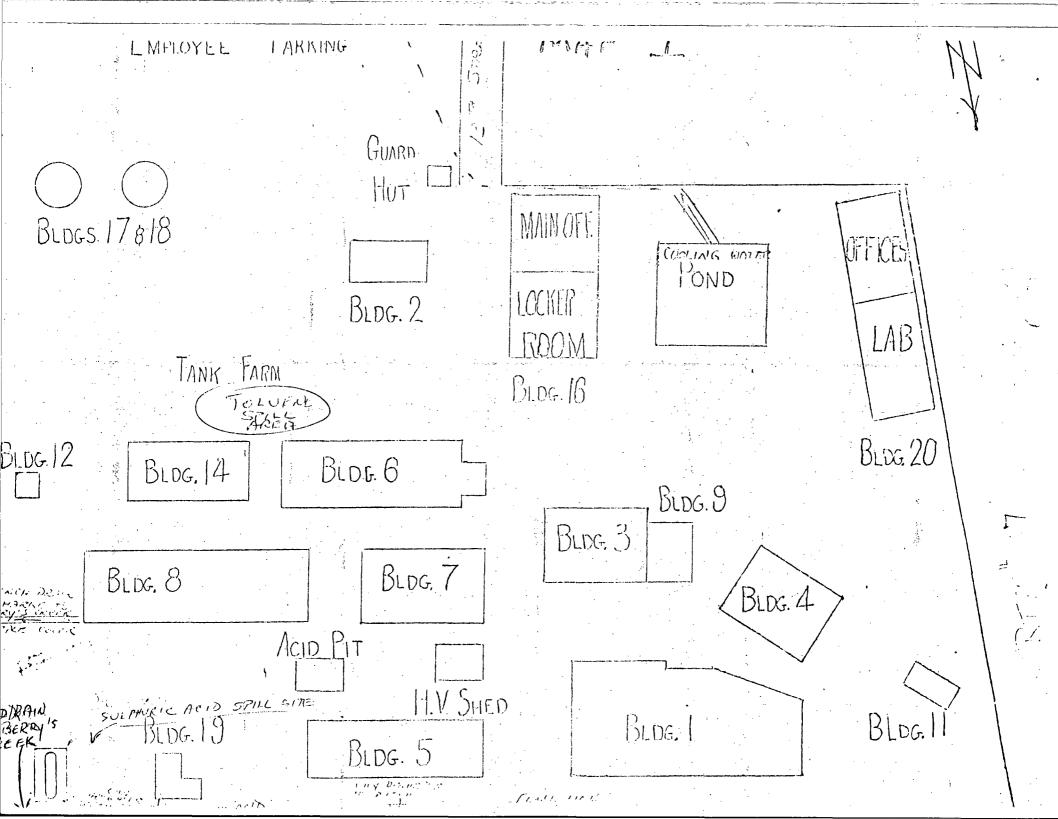
ATTAChmente

This writer then took samples of the toluene spill. At the time, it did not appear to this writer that any of the spilled toluene had directly entered Berry's Creek or any conveyance systems connected to Berry's Creek. Arsynco had attempted to contain a portion of the spilled toluene by spreading a light layer of yellow sand over some of the spill. The remainder was being allowed to evaporate and soak into the soil. Having raised the issue of the toluene spill with Arsynco representatives Arsynco continued to ignore it making no visible effort to further clean it up or verbal indication of intent.

This writer called Mr. John Vernam, Special Services, to ascertain if the toluene spill or any other spill at Arsynco had recently been reported to D.E.P. by Arsynco. Mr. Vernam had no such record of any reported spills at Arsynco.

There is an attached Arsynco plant grounds schematic with indications as to the location of the toluene spill, sulphuric acid spill, and where samples were gathered. It is this writer's opinion that Arsynco's past and present contumelious attitude regarding in-plant housekeeping has contaminated the grounds, groundwaters underlying therein, and ultimately Berry's Creek. This Department would best be advised to define the severity of Arsynco's problem to enable proper resolve to be applied to the matter.

E65:G25



## HEALTH DEPARTMENT

# CARLSTADT, NEW JERSEY

## COMPLAINT FORM

DATE JUNE 30, 1982 TIME	BY: PHONE - PERSON - MAIL JULIE (CIRCLE)
	RECEIVED BY JOAN DECHERT
COMPLAINT ARSYNCO CHEMICAL CO.	
ADDRESS 13th STREET CARLSTADT	PHONE 933-2323
NATURE OF COMPLAINT ANONYMOUS	LEAKY DRUMS BEING XHXXXNM BURIED
ВУ	EMPLOYEESKMNINCONTENTS UNKNOWN
JULIE INVES	TIGATED FOUND LEAKY DRUMS, BUT COULD NOT DETECT
THEY WERE B	EING BURIEDREFERRED TO DEP FOR INVESTIGATION
CHECKED BY Well	DATE
RESULTS:	
DEP	CAME AND TOOK OVER CASE.
Went on 1	inspection with John Defina (DEP)
	ATTAChmen E
	•

# MID-BERGEN REGIONAL HEALTH COMMISSION

201 Continental Avenue River Edge, New Jersey 07661

Complaint	#	•••••	
D	ate		

(201)261-8008

Received by

(201)201-8008	Rec	eived by
Complainants Name + HMMMOUS	Phone	
Address	Card Mailed	Date
Premises Complained of - Name / MSUN() -	Address	
Nature of Complaint (Manifold Co.	<u> </u>	
Nest woll of hulding - bulloud two  North Gast Section of hulding 3  Front gate - ad trailer - dug long or  put chancials undergrand - soup  would accept them	INSECTS RATE	COMPLAINT  IS INSAN.  AGE SOLID WASTE  I
Assigned to Will Milly date	(e 23 82	
Report of findings	Cepro Jor	
United site - maid	HART - HOLD ILEAR M	anul
drums that are in unforma	lignificant amo	1
Conseasite water that fi	ist he cinterted	646-2600 -EF
hmake formal complaint		to al dreco
Action Taken		
Recommendation		
Inspector		
CC 1000		

### ARSYNCO, INC.

# AMENDMENT TO CLOSURE PLAN AS REQUIRED BY N.J.D.E.P.

- 1. Arsynco, Inc. facility is located on 12.9 acreas of which 10 acreas are developed. Arsynco, Inc. is a manufacturer of Specialty Organic Chemicals, and we are a batch operation. There are six manufacturing buildings, one machine shop, one boiler-room, two buildings for shipping & receiving, one building for the Q.C. Lab, supervisors offices and locker-room, one building for R&D, one building that houses the main office and employee lunch and locker-room, and two other buildings that are used for storage. There are forty tanks on site that are used to store raw materials and solvents for recycling (solvents for recycling are stored in 10 of the tanks).
- 2. Arsynco, Inc. has on site:
  - (a) Solvents for recycling.
    - I. Toluene
    - II. Xylene
    - III. Methanol
    - IV. Isopropyl Alcohol
    - V. Methylene Chloride
    - VI. 1,1,1 Trichloroethane
  - (b) The residue from the recycling of these solvents.
  - (c) Still bottom residue from distillation.
- 3. Tank description including #, capacity, location above or below ground and the specific type of waste stored:

TANK NO.	CAPACITY	LOCATION ABOVE OR BELOW GROUND	TYPE: OF SOLVENTS FOR RECYCLING
TS-71 TS-100 TS-62 TS-70 TS-80	6,333 gals. 1,000 gals. 3,772 gals. 500 gals. 500 gals.		Distilled Xylene Xylol, Methanol Rec. Xylene Rec. Methylene Chloride
TS-58	2,600 gals. 19,800 gals. 3,500 gals. 3,500 gals. 3,000 gals.	n n n n n n n n n n n n n n n n n n n	Rec. Isopropyl Alcohol Rec. Toluol Rec. Toluol Rec. Methanol Rec. Isopropyl Alcohol



State of Nem Berseg

# DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

CN 029 TRENTON, NEW JERSEY 08625

JOHN W. GASTON JR., P.E. DIRECTOR

DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

October 17, 1985

Mr. James Dillon, General Manager Arsynco Chemical Company Foot of 13th Street Carlstadt, NJ 07072

Dear Mr. Dillon:

On September 24, 1985, an inspection of the Arsynco Chemical Company (Arsynco) facility in Carlstadt was conducted by representatives of the Division of Water Resources (DWR) in response to a report of a spill by a representative of Arsynco.

During the inspection the following observations were made:

- 1. A 5000 gallon tank containing 20% sodium hydroxide developed a leak at a valve and approximately 3800 gallons were released into the containment area. The containment area failed at several points and seepage was observed outside the dike walls. Arsynco employees neutralized the sodium hydroxide using sulfuric acid and acetic acid and then washed the residue into a ditch which drains into Berry's Creek.
- 2. A precipitate from the reaction of the sodium hydroxide and the acids was observed to have settled in the drainage ditch.

- 3. Several pools of discolored liquids were observed at various locations in the rear yard area of the facility. These pools were results of past spills.
- 4. The ditch drains the rear yard of stormwater runoff as well as all spills.
- 5. A second ditch located in the rear yard of Arsynco was observed receiving discolored seepage from the soil. This ditch also drains into Berry's Creek.

Based from these observations, DWR has determined that a potential exists for surface water and ground water contamination from hazardous substances. Unpermitted discharges to the surface water and ground water are in violation of N.J.S.A. 58:10A-1 et seq., the New Jersey Water Pollution Control Act, and N.J.S.A. 58:10-23.11c et seq., the Spill Compensation and Control Act.

Arsynco is therefore Directed to:

- Contain the discharge of the reaction precipitate from entering Berry's Creek.
- 2. Submit a plan within fourteen (14) days of the receipt of this DIRECTIVE outlining the removal of the reaction precipitate from the ditch, and also a plan for the containment of any future spills in the rear yard to prevent them from entering Berry's Creek a tributary of the Hackensack River.
- 3. Allow access for DWR representatives to conduct soil and water sampling from the rear yard in order to evaluate the extent of potential ground water contamination. Under N.J.A.C. 7:14A-6.15 et seq., Arsynco may be required to obtain a NJPDES permit to discharge to the ground water based on, "activities or past practices which have resulted in an actual or potential discharge of hazardous waste, hazardous waste constituents, or other ground water pollutants onto the land."

Failure to comply with this DIRECTIVE may result in further enforcement action by this office, including the imposition of penalties, pursuant to N.J.S.A. 58:10A-10. Compliance, however, shall not be construed to relieve Arsynco from appropriate penalties for the cited statutory violations.

If you have any questions concerning this DIRECTIVE, please contact Mr. Anthony DeCandia of this office at (2015-645-1200.

Very truly yours,

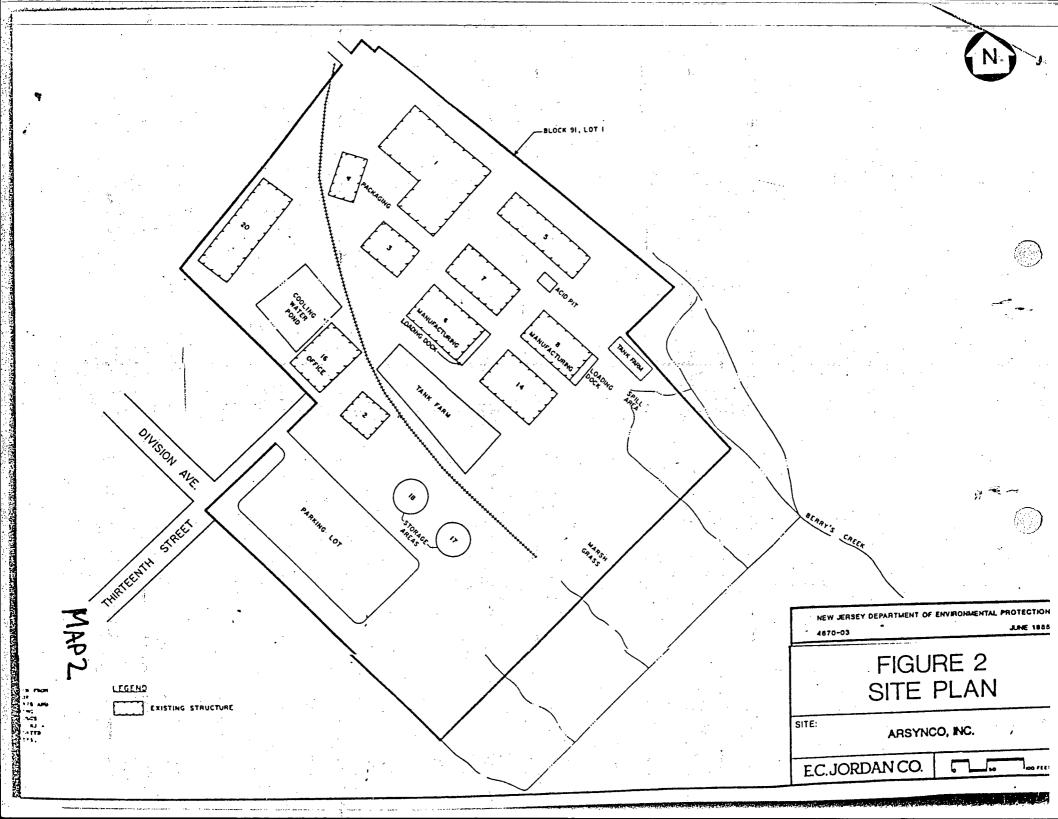
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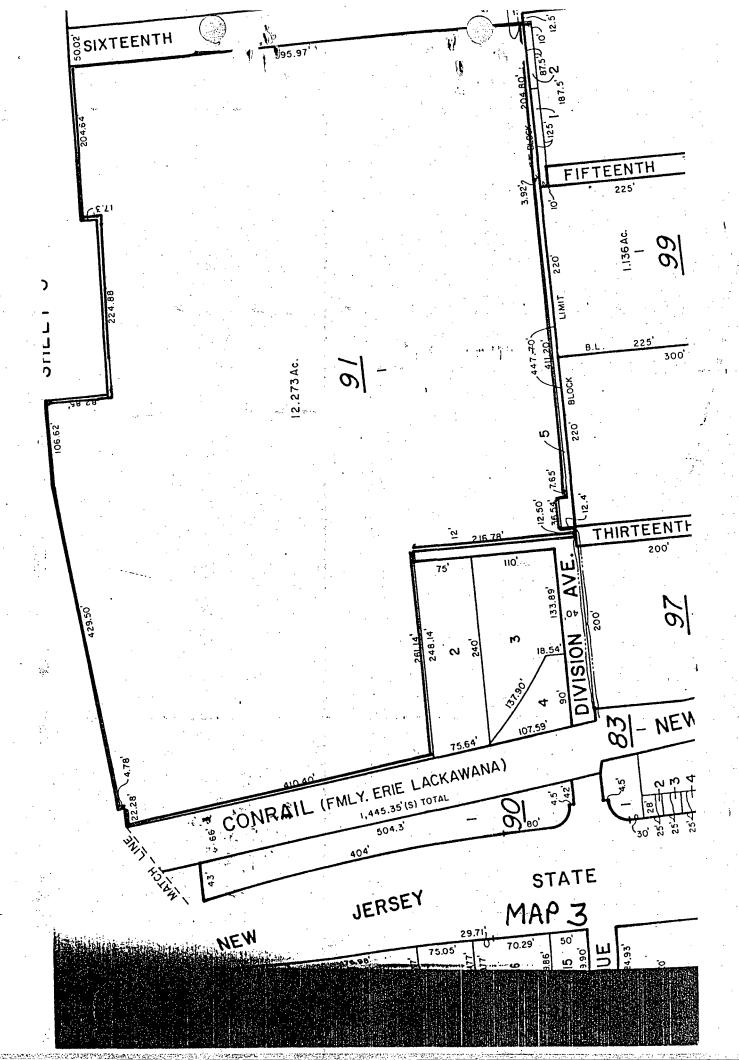
Thomas B. Harrington , Supervisor, Compliance Monitoring Unit Metro Bureau of Regional Enforcement

E126:G25

cc: Albert Greco

bcc: Marianne Montgomery





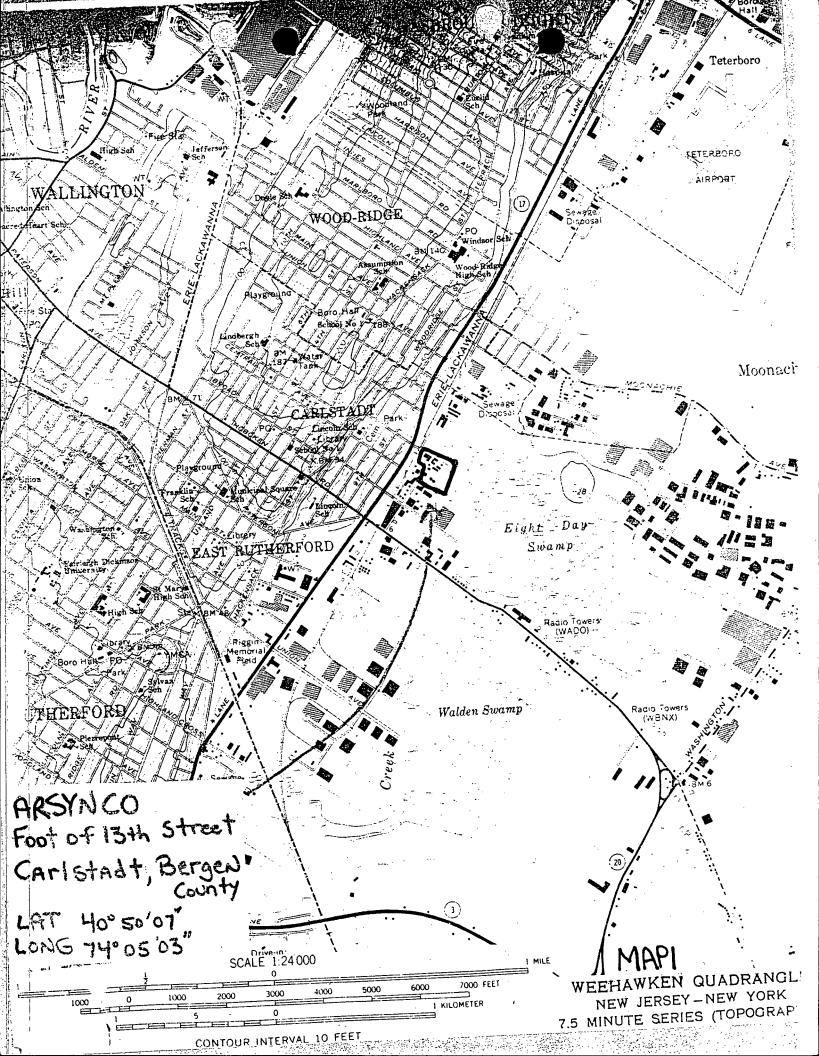
#### **ATTACHMENTS**

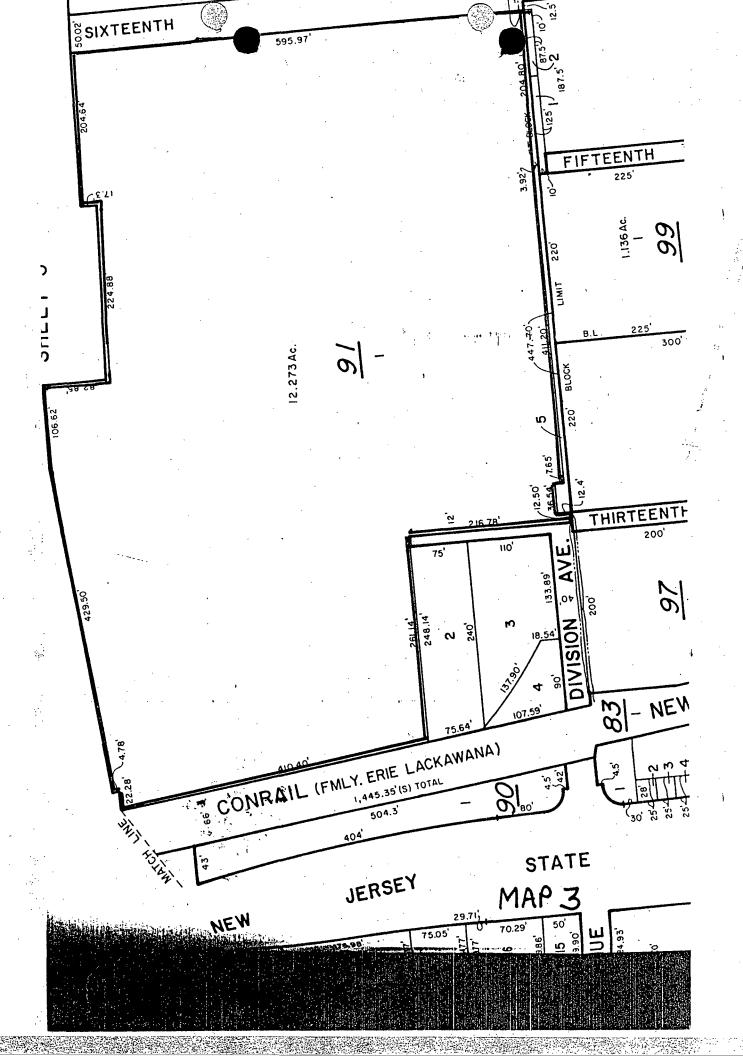
#### MAPS

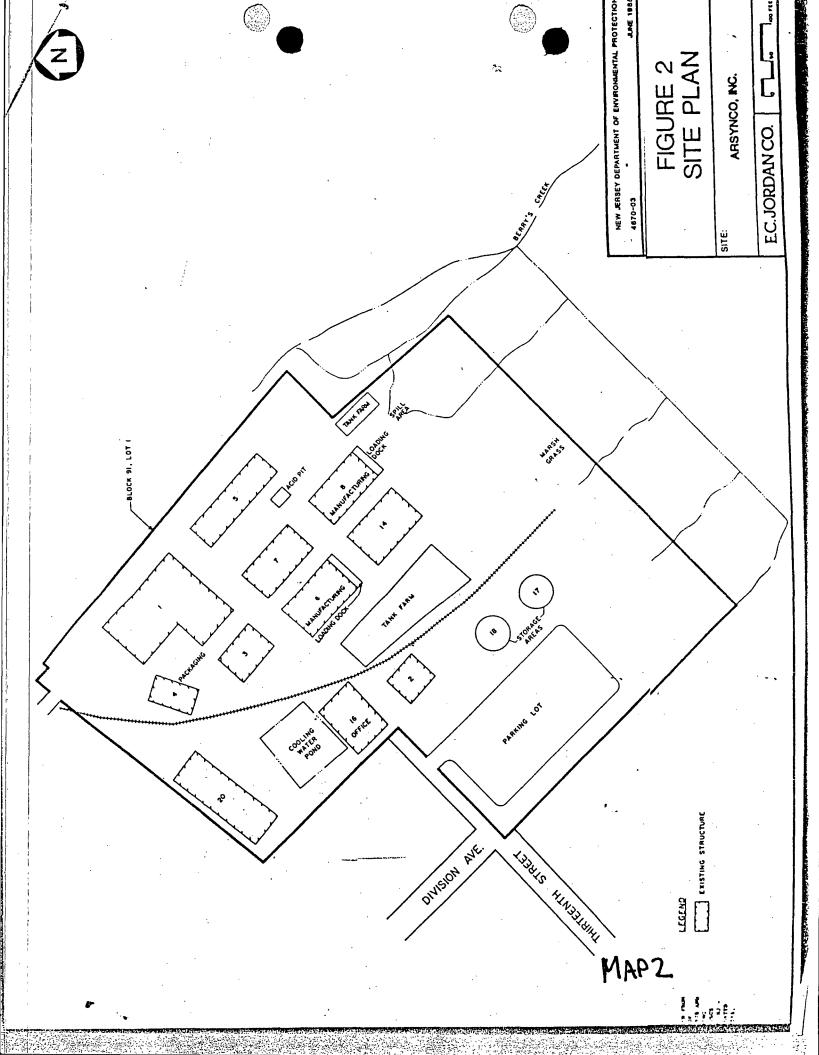
- USGS QUADRANGLE MAP
- 2. SITE MAP
- 3. TAX MAP
- 4. NJ ATLAS BASE MAP
- 5. GEOLOGIC OVERLAY
- WATER SUPPLY OVERLAY
- 7. WATER WITHDRAWAL MAP

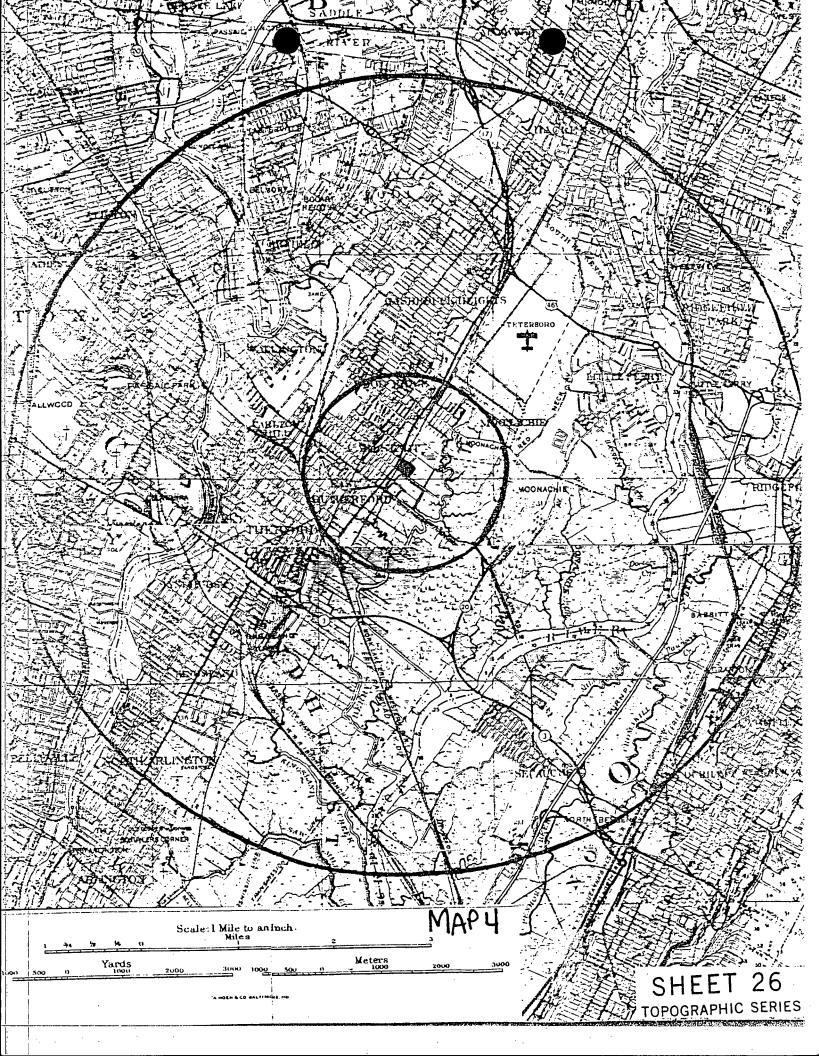
#### **ATTACHMENTS**

- A. DWR COMPLIANCE EVALUATION INSPECTION REPORT
- B. DWR ADMINISTRATIVE ORDER, OCTOBER 1988
- C. DHWM/BHWE SAMPLING RESULTS AND QA
- D. DWR COMPLIANCE EVALUATION INSPECTION REPORT
- E. DEQ ADMINISTRATIVE ORDER, APRIL 1988
- F. CLOSURE PLAN PREPARED BY EARTH TECHNOLOGY CORP.
- G. RESPONSIBLE PARTY INVESTIGATION
- H. 6 NOTICE'S OF VIOLATION
- I. DWM FACILITY INSPECTION REPORT
- J. DEQ ADMINISTRATIVE ORDER, AUGUST 1987
- K. WRITTEN REPORT OF INCIDENT, MARCH 1987
- L. BUREAU OF EMERGENCY RESPONSE INVESTIGATION, FEBRUARY 1987
- M. EPA PERFORMANCE AUDIT INSPECTION, APRIL 1986
- N. DIOXIN SITE INVESTIGATION REPORT, DECEMBER 1985
- O. DWR INSPECTION, OCTOBER 1985
- P. NJPDES NOTICE OF AUTHORIZATION
- Q. NJPDES PERMIT
- R. DWM ADMINISTRATIVE ORDER
- S. DWM NOTICE OF VIOLATION
- T. DWM NOTICE OF VIOLATION
- U. RCRA INSPECTION REPORT, SEPTEMBER 1981
- V. FACILITY CLOSURE PLAN, MAY 1981
- W. LISTING OF AIR PERMITS









## LEGERATION FOR ATLAS SHEET 2 (GEOLOGY) INDUSTRIAL WELL YIELD OVER 70 GALLONS PER MINUTE (INCLUDING PRIVATE WELLS) PUBLIC SUPPLY WELL YIELDING OVER 70 GALLONS PER MINUTE - UNSUCCESSFUL ROCK WELL YIELDING LESS THAN 70 GALLONS PER MINUTE UNSUCCESSFUL BAND WELL YIELDING LESS THAN 70 GALLONS PER MINUTE NO TEST - NO DATA ON YIELD FAULT (DASHED WHERE INFERRED) CONTACT (DASHED! WHERE INFERRED) PHYSIOGRAPHIC PROVINCE BOUNDARY WATER SUPPLY TRANSMISSION LINE WHERE THE PRECAMBRIAN FORMATION BOUNDARIES TERMINATE ABRUPTLY. NOTE: IT IS THE GEOLOGIST'S OPINION THAT THE GEOLOGICAL COMPLEXITY OF THE AREA PREVENTS FURTHER INTERPRETATIONS. Kmr --- CRETACEOUS MAGOTHY AND RARITAN FORMATIONS (SAND AND CLAY) TRIASSIC BRUNSWICK FORMATION TIC - TRIASSIC CONGLOMERATE BEDS OF THE STOCKTON FORMATION - TRIASSIC LOCKATONG FORMATION TI db --- TRIASSIC DIABASE To be -- TRIASSIC BASALT FLOWS SILURIAN DECKER LIMESTONE AND LONGWOOD SHALE FORMATIONS - SILURIAN GREEN POND CONGLOMERATE - ORDOVICIAN MARTINSBURG SHALE - CAMBRO ORDOVICIAN KITTATINNY LIMESTONE CAMBRIAN HARDYSTON SANDSTONE PRECAMBRIAN: sh - Horn Blende Granite do - AL ASKITE am- AMPHIBOLITE PX-PYROXENE GNEISS gng-QUARTZ PLAGIOCLASE GNEISS

Ind - FORMATION NOT DETERMINED

anb-BIOTITE GNEISS

sk - SKARN, GRAPHITE SCHIST

POPULATION

WATER SUPPLY

SEWAGE, LANDFILL

DRAINAGE BASIN

MUNICIPAL BOUNDARY

POPULATION DENSITY IN PERSONS PER SQUARE MILE

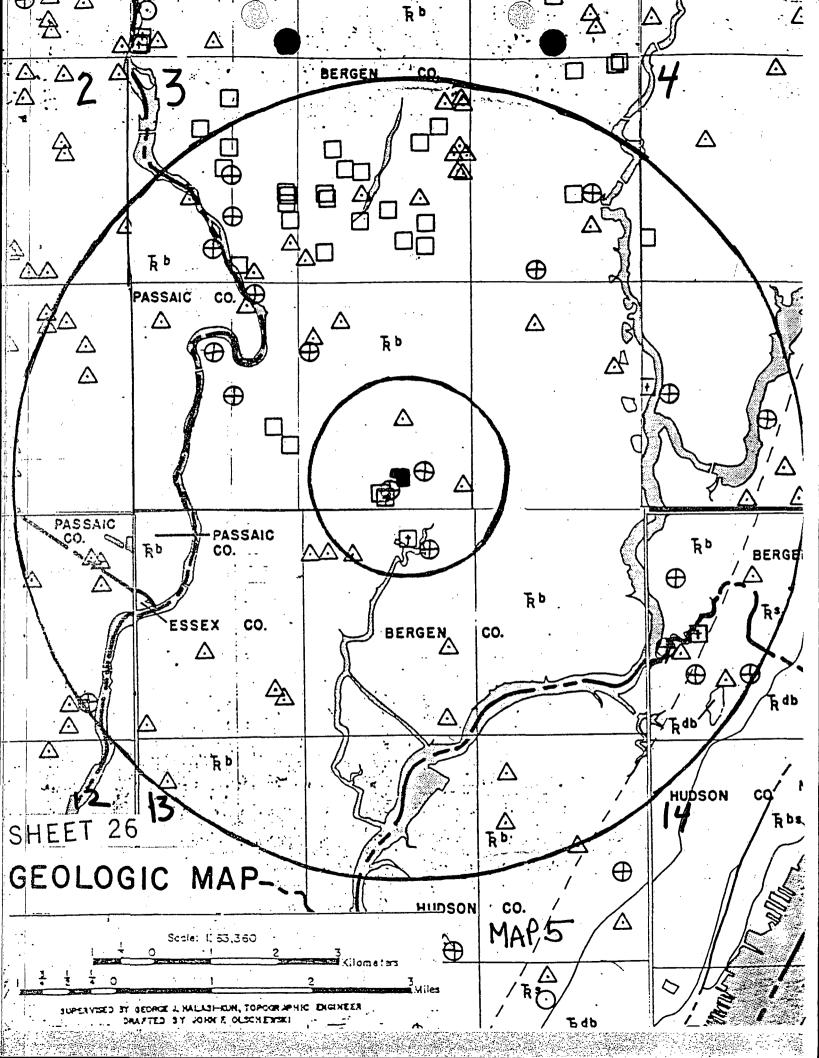
AREA IN SQUARE MILES

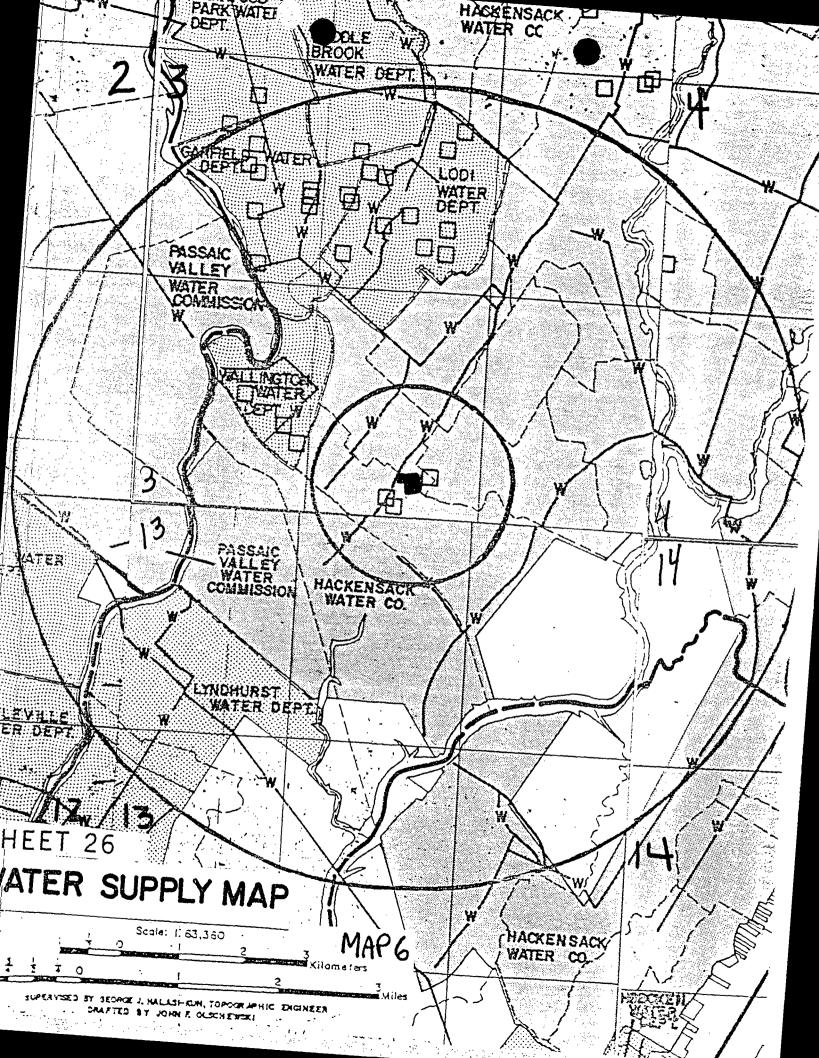
PERCENT AREA OF MUNICIPALITY ON BLOCK

MARKET ROADS

BUILT UP AREAS

STATE BOUNDARY









- A. Orange, Paterson
- B. Passaic-Lower Passaic
- C. 1. Little Falls Recording and non-recording temperature and precipitation gauges

Paterson - Non-recording temperature and precipitation gauges

2.	Map No.	Location	Period of Record
	35	Passaic River at Little Falls	1897-
	36	Slippery Rock Brook at Barbours Pond,	
		West Paterson	7/23/45
	27	Slippery Rock Brook at Highland Lake,	
		West Paterson	7/23/45
	39	Peckman Brook at Bradford Ave., Cedar Grove	7/23/45
•	43	Mollyann Brook at Squaw Lake Dam, No. Haledon	7/23/45
	45	Mollyann Brook below Redwood Ave., Paterson	7/23/45
	46	Passaic River at Paterson	1898-1955
3.	35	Passaic River at Little Falls	1962-
	247	Passaic River at Totowa	1964-
	254	Peckman River at Cedar Grove	1964
	255	Peckman River at West Paterson	1964-

Water Quality Standards: (explained in Atlas Sheet Description) FW2 except where classified FW3

- D. Brunswick Formation (Trb), Basalt Flows (Trbs)
- E. 1. Physiographic Province: Piedmont
  Subdivision: Triassic Lowlands
  Major Topographic Features: Red Sandstone Plain, Watchung Ridges
  Elevations (ft.above sea level): ridges 600, valleys 50
  Relief (ft.): 550
  - 2. a. Normal Year: 47"
    Dry Year: 38"
    Wet Year: 59"
    - b. January: 31°F
      July: 74°F
    - c. 241 days. Last killing frost: 4/25; first killing frost: 10/20
- F. Passaic County:

Preakness Valley Park
Garrett Mountain Reservation
Passaic Valley:
Municipal Watershed
Cedar Grove:
Municipal Watershed

H. Westside Park/Van Houten House, Paterson Great Falls of Paterson and Society of Useful Manufactors, Historic District, Paterson

# I. Water Well Records

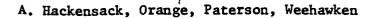
Screen	
Setting	

			Setting	•		
	<b>,</b>	Year	or Depth	Total	g/m	
Location	Owner	Drilled	of Casing	Depth	<u>Yield</u>	Formation
26-02-142	Twp. of Wayne			?	No test	Q
26-02-174	Marcal Paper Products	•		?	11	ri .
26-02-177				?	11	**
26-02-221	Grand Union Co.	1955	30	41	90	**
26-02-222	Bluebird Dyeing Corp.			65	550	71
26-02-227	Columbia Piece Die Works	•		235	100	Trdb
26-02-227	11			100	140	11
26-02-234	Fair Lawn Dept. of Pub.Wks.			500	85	Trb
26-02-265	35 Church St. Corp.	1953	32	200	75	11
26-02-265	Garden Theater	1955	35/8	229	200	tt ·
26-02-273	Hudson Piece Dye Works	,	03, 0	450	75	Trbs-Trb
26-02-295	Passaic Rolling Mill			2100	100	Trb
26-02-312	Barbizon Corp.			300	385	11
26-02-321	Boque Electric Co.			345	215	11
26-02-326	Spotless Cleaners	1965	30	400	135	11
26-02-332	Lyons Piece Dye Works	1505	30	584	85	· u
26-02-332	ii			600	250	11
26-02-334	Fair Lawn Dept.of Pub.Wks.	1964	40	500	85	11
26-02-335	Boro of Fair Lawn	<b>1</b> 704	40	402	475	11
26-02-335	n i			413	500	11
26-02-335	Fair Lawn Dept.of Pub.Wks.	1955	47	400	450	**
26-02-335	ii perior ide. west	1954	53	500	430 75	11
26-02-342	Our Lady of Victories	1954				11
			25	300	112	11
26-02-364	Temple Emanuel	1954	17	150	150	11
26-02-373	Madison Ave.Baptist Church	1964	38	250	276	11
26-02-375	River Pulp Co.			400	350	11
26-02-378	Wright's Diner	1060	0.5	220	70	11
26-02-378	Heller Candy Co., Inc.	1962	25	315	157	
26-02-381	Paterson Board of Education	1965	63	312	30	11 .
26-02-382	First Natl.Bank & Trust	1953	12	200	125	
26-02-385	Grand Union Co.			199	85	11
26-02-385	Artson Realty Co.	•		200	100	11
26-02-391	Okonite Cb.			?	375	**
26-02-391	11			?	375	
26-02-391	11			?	375	11
26-02-399	Food Fair Stores, Inc.	1955	21.5	231	150	11
26-02-416	Colorite Color Plastics	1965	45/50	405	2	Trbs
26-02-424	Container Corp.of America	1958	32	600	65	11
26-02-426	Instrument Specialty Co.	1956	33	150	75	Trb-Trbs
26-02-447	Little Falls Laundry		•	1012	450	Trbs
26-02-579	Bongiorne, Dr.	•		250	105	Trb
26-02-589	Bolero	1954	50	350	200	11
26-02-618	Pub.Svc.Elec.& Gas			400	164	11
26-02-621	Manhattan Casting Co.	1959	20	220	150	11
26-02-623	Boque Electric Co.	-	_	447	75	11
26-02-624	Garafano & Son, Inc.	1965	24	140	201	11
26-02-633	Independence Plating Co.	1954	21.5	402	230	11
26-02-645	F.E.R. Realty Co., Inc.	1955	32	307	300	11
26-02-653	Natl. Silk & Dyeing Co.			500	125	tt
26-02-653	11	•		600	125	11
0_ 0_0				000	123	

	•				$\mathcal{N} \mathcal{F}$	
26-02-671	Shulton, Inc.	1955	15/28	300	435	m1.
26-02-675	11	1964				Trb "
26-02-676	11		20	400	198	•
26-02-676	Athania Charl Ca	1964	21	300	322	11
	Athenia Steel Co.			389	330	11
26-02-687		1959	36/40'10"	60	282	11
26-02-688	Federal Sweets & Biscuit Co.			400	280	**
<b>26-02-693</b>	Cosley & Co.	1954	45	250	105	11
26-02-763	Bonds Ice Cream, Inc.			157	150	11
26 <b>-</b> 02-783	Bellvue Theater			250	145	11
26-02-861	Food Fair Stores					11
26-02-887	Essex Co.Park Commission			207	150	
26-02-894	Brookdale Beverage			224	164	**
26-02-919		1957	46	430	85	11
		1958	27	333	92	11
26-02-922	Texstyle Corp.			605	250	11
26-02-925	Standard Packaging Corp.	1955	57	400	190	11
<b>●</b> 26-02-926	Oneida Paper Prods. Co.		<b>J</b> .	200	100	11
● 26-02-937	Fritzsche Bros.					11
<b>●</b> 26-02-961	Speedway Car Wash Co.	1960	20	600	218	
26-02-973	Grand Union Co.	1900	20	500	80	11
26-02-973				102	80	Q-Trb
	Brookliff Realty Co.	1962	24	301	190 -	Trb
26-02-973	Dumont Laboratories	1958	22	305	335	11
26-02-976	Stier, Albert A., Inc.			350	400	Q-Trb

J. Geodetic Control Survey monuments described Index Maps 15,21; adjacent Index Maps 14,20

8/76



C.	2.	Map No	. Location	Period of Record
		53	Passaid River at Dundee Dam, Clifton	7/23/45
		61	Saddle River at Lodi	1923-
		62	Weasel Brook at Clifton	1937-1961
		419	Fleischer Brook, East Paterson (Market St.)	1967-
		423	Sprout Brook at Rochelle Park	1965–
	3.	242	Overpeck Creek at Ridgefield	1964-
		248	Passaic River at Garfield	1964
,		264	Saddle River at Garfield	1967-

Water Quality Standards: (explained in Atlas Sheet description) FW3, TW1 except where classified TW2 or TW3

# D. Brunswick Formation

- E. 1. Physiographic Province: Piedmont
  Subdivision: Triassic Lowlands
  Major Topographic Features: Red Sandstone Plain
  Elevations (ft.above sea level): ridges 150, valleys 0
  Relief (ft.): 150
  - 2. a. Normal Year: 45"
    Dry Year: 36"
    Wet Year: 50"
    - b. January: 31°F
      July: 74°F
    - c. 245 days. Last killing frost: 4/20; first killing frost: 10/20
- F. Bergen County: | Saddle River County Park
- H. Von Steuben House, River Edge

# I. Water Well Record

Screen

		•	Screen	-		
	•		Setting			:
	·	Year	or Depth	Total	g/m	
Location	Owner	<b>Drilled</b>	of Casing	Depth	Yield	Formation
26-03-111	Boro of Fair Lawn			408	380	Trb
26-03-111	"	٠		458	280	11
26-03-112	u ,		•	500	143	11
26-03-117	Fair Lawn Dairy Co., Inc.	1955	62	205	125	17
26-03-124	Fair Lawn Water Dept.	1954	47	200	173	ft
26-03-127	Fair Lawn Dept.of Pub.Wks.	1955	48/53	400	165	11
26-03-127	Boro of Fair Lawn	1773	40,55	338	245	11
26-03-127	Metro Glass			200	120	11
26-03-146	Ellwood Stores Inc.	1952	22	692	100	**
26-03-161	Boro of Wallington	1972	22	300	304	11
				330	95	11
26-03-171	Garfield Boro Water Dept.	1962	25			
26-03-174	Marcal Paper Mills, Inc.			35	35	Q
26-03-177	. 11	1962	23		o test	11
26-02-177	; ; 11	1962	8	20	11	H
26-03-177	7	1962	22	30		
26-03-178	Sausville, J. & Son	1050	70	300	100	Trb
26-03-188	Rel Plastic Corp.	1952	79	150	75 -	
26-03-211	Boro of Fair Lawn	2071		500	65	**
26-03-217	_	1974	47 	635	235	11
26-03-231	All Purpose Roll Leaf	1962	71	350	100	11
26-03-256	Hackensack Water Co.	1965	77'10"	473	250	tt
26-03-259	Bijur Lubricating Corp.			175	200	
26-03-262	Alexander's Dept. Store	1961	25	35	290	Q
26-03-355	Hackensack Water Co.	1959			lo test	Trb
26-03-382	- · · · · · · · · · · · · · · · · · · ·			450	175	
26-03-394	Spartan Typographers Inc.	1956	135	145	75	Q
26-03-394	Hackensack Cable Co.	1958	106	120	171	Trb
26-03-426	<del>-</del>	1954	80	200	180	11
26-03-427	Boro of Wallington			400	350	11
<b>26-03-453</b>	City of Carfield	1966	57/77	475	77	11 
▶ 26-03-456		1967	33/56	400	328	11
●26-03-456	<b>II</b>	1966	20/43	710	30	11
26-03-457	Whippany Paper Board	1956	54	250	312	11
26-03-469	City of Garfield			273	95	11
26-03-469		•		320	130	11
<b>■</b> 26–03–469	11	•		165	400	
26-03-483	11	1966	21/40	400	25	**
26-03-485	Botany Worsted Mills			81	7	11
26-03-489	City of Garfield	1967	61.5	276 1	lo test	11
26-03-493	<b>11</b>			326	89	tt
<b>■</b> 26-03-496	Laurel Co.			500	100	11
● 26-03-497	Heyden Chemical Works			375	90	11
● 26-03-535	Aquarium, Inc.	1963	22	300	172	11
26-03-536	Maywood Chemical Co.	•		220	400	11
26-03-536	Citro Chemical Co.		:	220	400	11
26-03-538	Lodi, Boro of	•		403	600	11
26-03-542	City of Garfield	1968	15/35	405	405	11 .
26-03-546	Lodi, Boro of			300	170	11
● 26-03-548	tt			?	135	11
• 26-03-548	H .			200	125	11
26-03-554	Lodi Dept.of Public Works	1965	20/40	510	100	**
			,			

② 26-03-561 Boro of Lodd	<b>26-03-557</b>	Washine Chemical Co.	1966	29'4"/ 46'10-1/2"	400	100	Trb
26-03-563 " 1956 20'8" 301 350 " 290	<b>26-03-561</b>	Boro of Lodi			?	295	11
26-03-563	<b>26-03-563</b>	Lodi Shopping Center	1960		300	290	11
26-03-566   Interchemical Corp.   1969   34/43   300   237	26-03-563	it	1956	2018"	301	350	**
26-03-566   Spiegal Mfg. Corp.   1969   34/43   300   237	<b>26-03-563</b>	Muscarelle, J.L., Inc.	1966	32	400	159	<b>F1</b>
26-03-567 Master Etching Corp. 1965 29 400 105 " 26-03-575 Boro of Lodi 1954 31'5"/ 459 157 " 26-03-577 Yoo-Hoo Beverage Co. 1959 22 303 95 " 26-03-581 Boro of Lodi 7: 145 " 26-03-582 Lodi Dept.of Public Works 1965 36/56 450 175 " 26-03-586 Boro of Lodi 7: 145 " 26-03-586 Boro of Lodi 8: 1966 28/48 470 285 " 26-03-591 8: 1966 28/48 470 285 " 26-03-591 8: 1966 28/48 470 285 " 26-03-623 18: 1954 130/ 168 1700 " 26-03-632 1954 130/ 168 1700 " 26-03-632 1955 168 190 1420 " 26-03-632 1955 168 190 1420 " 26-03-667 Food Fair Stores 1954 270 525 55 " 26-03-687 Spinnerih Yarn 1965 110 400 55 " 26-03-687 Spinnerih Yarn 1965 110 400 55 " 26-03-691 Seilheimer Beverage Co. 1958 115 415 76 " 26-03-731 Farmland Dairy Inc. 1968 12/50 400 25 " 26-03-731 Prescott, J.L. & Co. 1962 90 500 25 " 26-03-731 Tendebrands Frozen Foods 1950 76 230 100 " 26-03-768 Boro of Wallington 1964 118.5 300 30 " 26-03-788 " 26-03-816 Wright Aeronautical Eqpt. 1957 340 515 " 26-03-817 Wright Aeronautical Eqpt. 1957 340 515 " 26-03-888 Lancaster Chemical Co. 1952 20 145 120 " 26-03-888 Lancaster Chemical Co. 1955 86 86 300 Q 26-03-888 Lancaster Chemical Co. 1955 86 30 0 Q 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb 26-03-899 World Plastic Extruders, Inc. 1956 67 150 95 "	<ul><li>26-03-566</li></ul>	Interchemical Corp.		•	435	187	71
26-03-575 Boro of Lodi	<ul><li>26-03-566</li></ul>	Spiegal Mfg. Corp.	1969	34/43	300	237	11
26-03-577   Yoo-Hoo Beverage Co.   1959   22   303   95	<b>26-03-567</b>	Master Etching Corp.	1965	29	400	105	11
26-03-581 Boro of Lodi	<b>●</b> 26 <b>-</b> 03 <b>-</b> 575	Boro of Lodi	1954		459	157	17
26-03-581 Boro of Lodi 26-03-582 Lodi Dept.of Public Works 26-03-586 Boro of Lodi 26-03-586 Boro of Lodi 26-03-591 " 1966 28/48 470 285 " 26-03-594 " 350 85 " 26-03-623 Hackensack Water Co. 189 215 Q 26-03-632 " 1954 130/ 168 1700 " 26-03-632 " 1955 168 190 1420 " 26-03-639 Bowler City 1958 120 400 108 Trb 26-03-667 Food Fair Stores 1954 270 525 55 " 26-03-667 Food Fair Stores 1954 270 525 55 " 26-03-687 Spinnerih Yarn 1965 110 400 55 " 26-03-691 Seilheimer Beverage Co. 1958 115 415 76 " 26-03-715 Farmland Dairy Inc. 1968 12/50 400 25 " 26-03-728 Paterson Parchment Paper Co. 26-03-731 Tendebrands Frozen Foods 1950 76 230 100 " 26-03-736 Boro of Wallington 1964 118.5 300 30 " 26-03-768 " 1965 40 400 217 " 26-03-817 Tube Reducing Corp. 1954 20 397 90 " 26-03-888 Lancaster Chemical Co. 1952 20 145 120 " 26-03-888 Lancaster Chemical Co. 1955 86 86 300 Q 26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb 26-03-924 DeTroy Press, Inc. 1956 67 150 95 "	■ 26-03-577	Yoo-Hoo Beverage Co.	1959	22	303	95	**
26-03-586   Boro of Lodi	● 26-03-581						11
26-03-591	■ 26-03-582	Lodi Dept.of Public Works	1965	36/56	450	175	11
26-03-594	26-03-586	Boro of Lodi			?	109	11
26-03-632	<b>●</b> 26 <b>-</b> 03 <b>-</b> 591	11	1966	28/48	470	285	**
26-03-632 " 1954 130/ 148'8"  26-03-659 Bowler City 1958 120 400 108 Trb 26-03-667 Food Fair Stores 1954 270 525 55 " 26-03-667 Food Fair Stores 1954 270 525 55 " 26-03-687 Spinnerin Yarn 1965 110 400 55 " 26-03-691 Seilheimer Beverage Co. 1958 115 415 76 " 26-03-715 Farmland Dairy Inc. 1968 12/50 400 25 " 26-03-728 Paterson Parchment Paper Co. 26-03-728 Paterson Parchment Paper Co. 26-03-731 Prescott J.L. & Co. 1962 90 500 25 " 26-03-731 Tendebrands Frozen Foods 1950 76 230 100 " 26-03-756 Boro of Wallington 1964 118.5 300 30 " 26-03-768 " 1965 40 400 217 " 26-03-768 " 1965 40 400 217 " 26-03-816 Wright Aeronautical Eqpt. 1957 340 515 " 26-03-817 Tube Reducing Corp. 1954 20 397 90 " 26-03-817 Tube Reducing Corp. 1954 20 397 90 " 26-03-888 Hackensack Water Co. 1955 86 86 300 Q 26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb 26-03-894 Hackensack Water Co. 1955 243 60 Q 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb	26-03-594	11			350		11
26-03-632 " 1954 130/ 148'8"  26-03-632 " 1955 168 190 1420 "  26-03-659 Bowler City 1958 120 400 108 Trb  26-03-667 Food Fair Stores 1954 270 525 55 "  26-03-687 Spinnerin Yarn 1965 110 400 55 "  26-03-691 Seilheimer Beverage Co. 1958 115 415 76 "  26-03-715 Farmland Dairy Inc. 1968 12/50 400 25 "  26-03-728 Paterson Parchment Paper Co.  26-03-728 Paterson Parchment Paper Co.  26-03-731 Tendebrands Frozen Foods 1950 76 230 100 "  26-03-731 Tendebrands Frozen Foods 1950 76 230 100 "  26-03-768 " 1965 40 400 217 "  26-03-768 " 1965 40 400 217 "  26-03-793 " 300 330 "  26-03-816 Wright Aeronautical Eqpt. 1957 340 515 "  26-03-817 Tube Reducing Corp. 1954 20 397 90 "  26-03-817 Tube Reducing Corp. 1954 20 397 90 "  26-03-888 Hackensack Water Co. 1955 86 86 300 Q  26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb  26-03-894 Hackensack Water Co. 1955 243 60 Q  26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb  26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb	26-03-623	Hackensack Water Co.			189	215	Q
26-03-659 Bowler City 1958 120 400 108 Trb 26-03-667 Food Fair Stores 1954 270 525 55 " 26-03-687 Spinnerin Yarn 1965 110 400 55 " 26-03-691 Seilheimer Beverage Co. 1958 115 415 76 " 26-03-715 Farmland Dairy Inc. 1968 12/50 400 25 " 26-03-728 Paterson Parchment Paper Co. 378 53 " 26-03-731 Prescott J.L. & Co. 1962 90 500 25 " 26-03-731 Tendebrands Frozen Foods 1950 76 230 100 " 26-03-736 Boro of Wallington 1964 118.5 300 30 " 26-03-768 " 1965 40 400 217 " 26-03-768 " 1965 40 400 217 " 26-03-816 Wright Aeronautical Eqpt. 1957 340 515 " 26-03-817 Tube Reducing Corp. 1954 20 397 90 " 26-03-817 " 1954 31 392 20 " 26-03-881 Hackensack Water Co. 1955 86 86 300 Q 26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb 26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb 26-03-924 DeTroy Press, Inc. 1956 67 150 95 "	26-03-632		1954		168	1700	
26-03-667 Food Fair Stores 1954 270 525 55 " 26-03-687 Spinnerin Yarn 1965 110 400 55 " 26-03-691 Seilheimer Beverage Co. 1958 115 415 76 " 26-03-715 Farmland Dairy Inc. 1968 12/50 400 25 " 26-03-728 Paterson Parchment Paper Co. 378 53 " 26-03-731 Prescott, J.L. & Co. 1962 90 500 25 " 26-03-731 Tendebrands Frozen Foods 1950 76 230 100 " 26-03-756 Boro of Wallington 1964 118.5 300 30 " 26-03-768 " 1965 40 400 217 " 26-03-781 Wright Aeronautical Eqpt. 1957 340 515 " 26-03-816 Wright Aeronautical Eqpt. 1957 340 515 " 26-03-817 Tube Reducing Corp. 1954 20 397 90 " 26-03-817 " 1954 31 392 20 " 26-03-888 Hackensack Water Co. 1952 20 145 120 " 26-03-888 Lancaster Chemical Co. 1955 86 86 300 Q 26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb 26-03-899 World Plastic Extruders, Inc. 1956 67 150 95 "	26-03-632		1955	168	190	1420	**
26-03-687 Spinnerin Yarn 1965 110 400 55 " 26-03-691 Seilheimer Beverage Co. 1958 115 415 76 " 26-03-715 Farmiand Dairy Inc. 1968 12/50 400 25 " 26-03-728 Paterson Parchment Paper Co. 378 53 " 26-03-731 Prescott J.L. & Co. 1962 90 500 25 " 26-03-731 Tendebrands Frozen Foods 1950 76 230 100 " 26-03-756 Boro of Wallington 1964 118.5 300 30 " 26-03-768 " 1965 40 400 217 " 26-03-793 " 300 330 " 26-03-816 Wright Aeronautical Eqpt. 1957 340 515 " 26-03-817 Tube Reducing Corp. 1954 20 397 90 " 26-03-817 " 1954 31 392 20 " 26-03-888 Hackensack Water Co. 1952 20 145 120 " 26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb 26-03-894 Hackensack Water Co. 1955 243 60 Q 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb 26-03-924 DeTroy Press, Inc. 1956 67 150 95 "	<b>●</b> 26 <b>-</b> 03 <b>-</b> 659	Bowler City	1958	120	400	108	Trb
26-03-637 Spinherin later	<ul><li>26-03-667</li></ul>	Food Fair Stores	1954	270	525	55	**
26-03-715       Farmland Dairy Inc.       1968       12/50       400       25       "         26-03-728       Paterson Parchment Paper Co.       378       53       "         26-03-731       Prescott, J.L. & Co.       1962       90       500       25       "         26-03-731       Tendebrands Frozen Foods       1950       76       230       100       "         26-03-756       Boro of Wallington       1964       118.5       300       30       "         26-03-768       "       1965       40       400       217       "         26-03-768       "       1965       40       400       217       "         26-03-793       "       300       330       "         26-03-816       Wright Aeronautical Eqpt.       1957       340       515       "         26-03-817       Tube Reducing Corp.       1954       20       397       90       "         26-03-889       Hackensack Water Co.       1952       20       145       120       "         26-03-888       Lancaster Chemical Co.       1963       311/287       400       55       Trb         26-03-899       World Plastic Extruders, Inc. <t< td=""><td>◆ 26-03-687</td><td>Spinnerin Yarn</td><td>1965</td><td>110</td><td>400</td><td>55</td><td>11</td></t<>	◆ 26-03-687	Spinnerin Yarn	1965	110	400	55	11
• 26-03-728       Paterson Parchment Paper Co.       378       53         • 26-03-731       Prescott, J.L. & Co.       1962       90       500       25         • 26-03-731       Tendebrands Frozen Foods       1950       76       230       100       "         • 26-03-756       Boro of Wallington       1964       118.5       300       30       "         • 26-03-768       "       1965       40       400       217       "         • 26-03-783       "       300       330       "         • 26-03-816       Wright Aeronautical Eqpt.       1957       340       515       "         • 26-03-817       Tube Reducing Corp.       1954       20       397       90       "         • 26-03-859       Terminal Construction Co.       1952       20       145       120       "         • 26-03-888       Hackensack Water Co.       1955       86       86       300       Q         • 26-03-894       Hackensack Water Co.       1963       311/287       400       55       Trb         • 26-03-899       World Plastic Extruders, Inc.       1966       53       200       100       Trb         • 26-03-924       DeTroy Press, Inc. </td <td><ul><li>26-03-691</li></ul></td> <td>Seilheimer Beverage Co.</td> <td>1958</td> <td></td> <td>415</td> <td>76</td> <td>77</td>	<ul><li>26-03-691</li></ul>	Seilheimer Beverage Co.	1958		415	76	77
• 26-03-731 Prescott, J.L. & Co. 1962 90 500 25 " • 26-03-731 Tendebrands Frozen Foods 1950 76 230 100 " • 26-03-756 Boro of Wallington 1964 118.5 300 30 " • 26-03-768 " 1965 40 400 217 " • 26-03-793 " 300 330 " • 26-03-816 Wright Aeronautical Eqpt. 1957 340 515 " • 26-03-817 Tube Reducing Corp. 1954 20 397 90 " • 26-03-817 " 1954 31 392 20 " • 26-03-859 Terminal Construction Co. 1952 20 145 120 " • 26-03-888 Hackensack Water Co. 1955 86 86 300 Q • 26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb • 26-03-894 Hackensack Water Co. 1955 243 60 Q • 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb • 26-03-924 DeTroy Press, Inc. 1956 67 150 95 "	<b>●</b> 26-03-715	Farmland Dairy Inc.	1968	12/50	400	25	11
• 26-03-731 Tendebrands Frozen Foods 1950 76 230 100 " • 26-03-756 Boro of Wallington 1964 118.5 300 30 " • 26-03-768 " 1965 40 400 217 " • 26-03-793 " 300 330 " • 26-03-816 Wright Aeronautical Eqpt. 1957 340 515 " • 26-03-817 Tube Reducing Corp. 1954 20 397 90 " • 26-03-817 " 1954 31 392 20 " • 26-03-859 Terminal Construction Co. 1952 20 145 120 " • 26-03-888 Hackensack Water Co. 1955 86 86 300 Q • 26-03-888 Lancaster Chemical Co. 1955 263 No test Q • 26-03-894 Hackensack Water Co. 1955 243 60 Q • 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb • 26-03-924 DeTroy Press, Inc. 1956 67 150 95 "		Paterson Parchment Paper Co.			378	53	11
• 26-03-756 Boro of Wallington 1964 118.5 300 30 " • 26-03-768 " 1965 40 400 217 " • 26-03-793 " 300 330 " • 26-03-816 Wright Aeronautical Eqpt. 1957 340 515 " • 26-03-817 Tube Reducing Corp. 1954 20 397 90 " • 26-03-817 " 1954 31 392 20 " • 26-03-859 Terminal Construction Co. 1952 20 145 120 " • 26-03-888 Hackensack Water Co. 1955 86 86 300 Q • 26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb • 26-03-894 Hackensack Water Co. 1955 243 60 Q • 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb • 26-03-924 DeTroy Press, Inc. 1956 67 150 95 "	• 26-03-731	Prescott, J.L. & Co.	1962	90	500	25	**
● 26-03-768	◆ 26-03-731	Tendebrands Frozen Foods	1950		230	100	11
26-03-768 26-03-793 26-03-816 Wright Aeronautical Eqpt. 1957 26-03-817 Tube Reducing Corp. 1954 26-03-859 Terminal Construction Co. 1952 26-03-888 Hackensack Water Co. 1955 263 No test Q 26-03-888 Lancaster Chemical Co. 1955 263 No test Q 26-03-894 Hackensack Water Co. 1955 263 No test Q 26-03-894 Hackensack Water Co. 1955 263 No test Q 26-03-894 Hackensack Water Co. 1955 263 No test Q 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb 26-03-924 DeTroy Press, Inc.			1964	118.5	300	30	11
26-03-816 Wright Aeronautical Eqpt. 1957 340 515 "  26-03-817 Tube Reducing Corp. 1954 20 397 90 "  26-03-817 " 1954 31 392 20 "  26-03-859 Terminal Construction Co. 1952 20 145 120 "  26-03-888 Hackensack Water Co. 1955 86 86 300 Q  26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb  26-03-894 Hackensack Water Co. 1955 243 60 Q  26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb  26-03-924 DeTroy Press, Inc. 1956 67 150 95 "	<ul><li>26-03-768</li></ul>	i '	1965	40	400	217	**
• 26-03-817 Tube Reducing Corp. 1954 20 397 90 " • 26-03-817 " 1954 31 392 20 " • 26-03-859 Terminal Construction Co. 1952 20 145 120 " • 26-03-888 Hackensack Water Co. 1955 86 86 300 Q • 26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb • 26-03-894 Hackensack Water Co. 1955 243 60 Q • 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb • 26-03-924 DeTroy Press, Inc. 1956 67 150 95 "		**		*	300	330	**
• 26-03-859 Terminal Construction Co. 1952 20 145 120 " • 26-03-888 Hackensack Water Co. 1955 86 86 300 Q • 26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb • 26-03-894 Hackensack Water Co. 1955 243 60 Q • 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb • 26-03-924 DeTroy Press, Inc. 1956 67 150 95 "		<del></del> .	1957		340	515	11
26-03-859       Terminal Construction Co.       1952       20       145       120       "         26-03-888       Hackensack Water Co.       1955       86       86       300       Q         26-03-888       "       1955       263       No test       Q         26-03-888       Lancaster Chemical Co.       1963       311/287       400       55       Trb         26-03-894       Hackensack Water Co.       1955       243       60       Q         26-03-899       World Plastic Extruders, Inc.       1966       53       200       100       Trb         26-03-924       DeTroy Press, Inc.       1956       67       150       95       "	-	Tube Reducing Corp.	1954	20	397	90	11
26-03-888       Hackensack Water Co.       1955       86       86       300       Q         26-03-888       "       1955       263       No test       Q         26-03-888       Lancaster Chemical Co.       1963       311/287       400       55       Trb         26-03-894       Hackensack Water Co.       1955       243       60       Q         26-03-899       World Plastic Extruders, Inc.       1966       53       200       100       Trb         26-03-924       DeTroy Press, Inc.       1956       67       150       95       "		11 i	1954		392	20	11
● 26-03-888 " 1955 263 No test Q  ● 26-03-888 Lancaster Chemical Co. 1963 311/287 400 55 Trb  ● 26-03-894 Hackensack Water Co. 1955 243 60 Q  ● 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb  ● 26-03-924 DeTroy Press, Inc. 1956 67 150 95 "			1952	20	145	120	11
● 26-03-888       "       1955       263 No test Q         ● 26-03-888       Lancaster Chemical Co.       1963       311/287       400       55       Trb         ● 26-03-894       Hackensack Water Co.       1955       243       60       Q         ● 26-03-899       World Plastic Extruders, Inc.       1966       53       200       100       Trb         ● 26-03-924       DeTroy Press, Inc.       1956       67       150       95       "		Hackensack Water Co.	1955	86	86	300	Q
• 26-03-888       Lancaster Chemical Co.       1963       311/287       400       55       Trb         • 26-03-894       Hackensack Water Co.       1955       243       60       Q         • 26-03-899       World Plastic Extruders, Inc.       1966       53       200       100       Trb         • 26-03-924       DeTroy Press, Inc.       1956       67       150       95       "		<b>!!</b>	1955		263	No test	
● 26-03-894 Hackensack Water Co. 1955 243 60 Q ● 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb ● 26-03-924 DeTroy Press, Inc. 1956 67 150 95 "	<ul><li>26-03-888</li></ul>	Lancaster Chemical Co.	1963	311/287			-
● 26-03-899 World Plastic Extruders, Inc. 1966 53 200 100 Trb ● 26-03-924 DeTroy Press, Inc. 1956 67 150 95 "	<b>●</b> 26-03-894						
● 26-03-924 DeTroy Press, Inc. 1956 67 150 95 "	<b>●</b> 26 <b>-</b> 03 <b>-</b> 899	World Plastic Extruders, Inc.		.53			
	● 26-03-924						
	<ul><li>● 26-03-962</li></ul>	Stage Coach Inn				110	17

J. Geodetic Control Survey monuments described Index Maps 15,21; adjacent Index Map 16

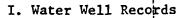


- A. Central Park, Hackensack, Weehawken, Yonkers
- B. Hackensack-Hackensack, Hudson-Hudson

С.	2.	Map No	. Location	Period of Record
		414	Metzler Brook at Englewood	1965-
	3.	239	Hackensack River at Hackensack	1964-
		240	Hackensack River at Little Ferry	1964-
		241	Overpeck Creek at Ridgefield	1964-
		242	Retrys Creek at Moonachie	1064_

Water Quality Standards: (explained in Atlas Sheet description) FW2, TW1 except where classified FW3 or TW2

- D. Brunswick Formation (Trb), Stockton Formation (Trs), Diabase (Trdb)
- E. 1. Physiographic Province: Piedmont
  Subdivision: Triassic Lowlands
  Major Topographic Features: Red Sandstone Plain, Palisades Ridge
  Elevations (ft.above sea level): ridges 450, valleys 0
  Relief (ft.): 450
  - 2. a. Normal Year: 44"
    Dry Year: 36"
    Wet Year: 51"
    - b. January: 32°F July: 74°F
    - c. 246 days. Last killing frost: 4/20; first killing frost: 10/20
- F. Bergen County:
  Overpeck County Park and Golf Course
- G. Palisades Interstate Park Commission Palisades Interstate Park
- H. Palisades Interstate Park



			Setting			•
		Year	or Depth	Total	g/m	
Location	Owner	Drilled	of Casing	Depth	Yield	Formation
26-04-144	Silver Park Record Co.	1958	44	335	185	Trb
26-04-174	Federated Dept.Stores Inc.	1959	117'11"	147	254	Q
26-04-196	Englewood Hospital Assn.	1968	53'3"	230	222	Trb
26-04-212	Food Fair Stores	1958	25	300	172	**
26-04-227	Patterson, H & Sons	1966	20	198	225	11
26-04-233	Grand Union Co.			50	82	Trs
26-04-296	Englewood Hospital Assn.			218	89	11
26-04-317	Clinton, Inn	1963	39	107	402	11
26-04-432	Grand Union Co.	1953	35	150	<b>7</b> 5	Trb
26-04-451	Home Town Laundries, Inc.			240	150	11
<ul><li>◆ 26-04-474</li></ul>	Bogota Water Co.	•		275	160	**
26-04-516	Tenafly Enterprises	1970	33	168	70	?
26-04-543	Spiegel Mfg.Corp.	1963	135	145	150	Q
26-04-556	Scharf, Charles	1955	64	250	100	Trs
26-04-557	Cart-Wright, Inc.	1960	115	298	100	11
26-04-744	Flinkote Co.	1955	38	38 N	No test	Q
26-04-745	Hygenic Ice Co.			750	7	Trb
26-04-767	Schonbrunn Co., Inc.	1965	40	291	60	Trs
26-04-795	J.G.Knits, Inc.	1972	50	300	250	Trb
26-04-789	Grove Pine Corp.	1966	88	315	200+	Trs
26-04-799	Great Bear Spring Co.	1965	30	95	178	Trb
26-04-816	Leonia Board of Education	1968	58	350	52	Trs

Screen

J. Geodetic Control Survey monuments described Index Maps 15,16,21

#### BLOCK #26-12



- A. Elizabeth, Orange
- B. Arthur Kill-Elizabeth, Rahway; Hackensack-Hackensack; Passaic-Lower Passaic

C.	2.	Map No.	Location	Period of Record
		63	Second River at Brighton Ave., East Orange	7/23/38
		64	Second River at Bloomfield Ave., Bloomfield	7/23/38
		65	Second River at Belleville	1937-1961
		66	Second; River at Newark Pipe, Belleville	7/23/33
		67	Elizabeth River at Irvington	1931-1938
	3.	262	Passaic River at Harrison	1967-1971

Water Quality Standards: (explained in Atlas Sheet description) FW3, TW2 except where classified TW3

- D. Brunswick Formation (Trb), Basalt Flows (Trbs)
- E. 1. Physiographic Province: Piedmont
  Subdivision: Triassic Lowlands
  Major Topographic Features: Red Sandstone Plain, Watchung Ridges
  Elevations (ft.above sea level): ridges 650, valleys 0
  Relief (ft.): 650
  - 2. a. Normal Year: 45"

    Dry Year: 37"

    Wet Year: 55"
    - b. January: 31°F July: 74°F
    - c. 243 days. |Last killing frost: 4/15; first killing frost: 10/20
- F. Bergen County:

  Riverside County Park and Hackensack River Area
  Essex County:

  Eagle Rock Reservation
  Branch Brook Park
- H. Montclair Railroad Terminal, Montclair
  Israel Crane House, Montclair
  Sydenham House, Newark
  Kruegar Mansion, Newark
  Penn Station, Newark
  First Baptist Peddie Memorial Church, Newark
  Saint James A.M.E., Newark
  Saint Stephan's Church, Newark
  Saint James's Church, Newark
  Saint Mary's Church, Newark
  Saint Barnabas, Newark
  Saint Columba's Church, Newark
  Saint John's Church, Newark
  Saint Patricks Procathedral, Newark
  Queen of Angels Church, Newark



# H. (contd.)

Cathedral Evangelica Reformada, Newark
New Point Baptist Church, Newark
South Park Presbyterian Church, Newark
Pan American C.M.A. Church, Newark
First United Methodist Church, Newark
House of Prayer Episcopal Church and Rectory, Newark
Grace Church, Newark
North Reformed Church, Newark
The Old First Presbyterian Church, Newark
Trinity Episcopal Church, Newark

# I. Water Well Records

I. Hatel H	ett vecora		_			
			Screen			
			Setting			•
		Year	or Depth	Total	g/m	
Location	Owner	Drilled	of Casing	Depth	<u>Yield</u>	<u>Formation</u>
26-12-157	Hahne & Co.			505	240	Trb
26-12-164	Quadrel, Michael	1955	18	151	75	
26-12-194	Town of Montclair	1966	21/41	300	950	11
26-12-194	Montclair Water Bureau	1966	16/36	300	470.	11
	Glen Ridge Country Club	1967	40	300	200	
26-12-222	Bloomfield Savings Bank	1956		145	100	11 11
26-12-313	Hoffman-LaRoche			902	128	
• 26-12-327	Food Fair Stores, Inc.			209	70	11
<b>■</b> 26-12-334	Kingsland's Paper Mills			400	125	11
<b>26-12-335</b>	Wiggins Plastics, Inc.	1963	24'-3/12"	378	180	**
26-12-338	Federal Telecommunications La	ab 1958	39 ' 6"	500	114	**
26-12-386	Liquid Carbonic Corp.			518	100	11
26-12-389	National Yeast Corp.			512	126	Trbs
<b>●</b> 26-12-394	Federal Leather Co.	•		802	60	Trb
26-12-417	Schering Corp.			478	127	11
26-12-423	Kidde W. & Co.	e.		400	400	**
26-12-448	Orange Dairy Co.			250	75	11
26-12-449	City of Orange	1970	61'5"	500	524	**
26-12-478	<b>u</b>	1971	56	506	500	11
26-12-486	Colonial Life Ins. Co.			357	323	11
26-12-513	Leonora Corp.	1957	33	200	70	11
26-12-526	Eastern Tool & Mfg.Co.	•		550	126	**
26-12-537	National Grain & Yeast Corp.			457	125	11
26-12-545	MGM Records (Div.of Loews)	1959	23	211	115	11
26-12-545	. 11	1960	36	579	120	11
26-12-547	11			400	275	<b>IT</b>
26-12-557	Warner Mfg. Co.	•		395	220	11
26-12-566	Tiffany & Co.			800	50	**
26-12-577	Bloomfield Moulding Co.	1968	18	350	200	. 11
26-12-622	Mansol Ceramics Co.			250	100	11
26-12-644	Droll Molding Co., Inc.	1962	50	300	80	**
26-12-655	Summit Chemical Prod.Corp.	<del></del>	<del>-</del> -	414	150	11
26-12-657	Crowhurst, A.J. & Sons			83	325	Q
	Aluminum Finishing Co.			150	100	Trb
26-12-682	North Newark Ice Co.			250	123	it
26-12-695	V.H. Swenson Co.	1962	49	40	170	
	11-1 0400000	1704	77	70	170	•

26-12-723	Mountain Ice Co.			634	300	Trb
26-12-729	Vinton Apartments Inc.	1955	<b>52</b> .	255	160	11
26-12-747	Columbia Theaters, Inc.	1953	26	312	140	11
26-12-751	Woolworth & Co.	1965	76'10"	300	80	11
26-12-758	Food Fair Stores	1956	73	214	180	11
26-12-783	Pabst Brewing Co.			535	300	11
26-12-812	Ward Baking Co.	•		200	111	11
26-12-822	Crabb, W. & Co.			600	300	**
26-12-827	Trent Hat Corp.			200	150	**
26-12-839	Reid Ice Cream Co.			600	100	11
26-12-846	Fagin Brothers Coal Yard			150	100	11
26-12-864	Barton Realty Co., Inc.	1965		385	100	11
26-12-869	Alderney Dairy Co.			450	113	11
26-12-893	Ballantine & Son Ale			1200	0	11
26-12-896	Mutual Benefit Life Ins.Co.	1965	44 '8''	312	219	11
26-12-898	Prudential Life Ins. Co.			1225	15	**
26-12-918	Abbey Record Co.	1962	24	697	135	11
26-12-921	Two Guys from Harrison	1959	99	405	628	11
26-12-933	DuPont			202	148	11
26-12-942	N.J. Rolling Mills	1963	99	400	20-	E1
26-12-944	Harrison Supply Co.	1966	88	174	50	11
26-12-948	Mountain Ice & Fuel Co.			350	122	11
26-12-957	Doelger Brewery			400	175	11
26-12-966	Verzelano, N.	1959	146	235	150	11
26-12-976	Driver-Harris Co.	1946	241	337	600	Q
26-12-994	Acme Refining Co.	1960	144	500	150	Trb
26-12-996	Lister Brothers			1200	0	11
26-12-998	Stanley Tools			637	125	11

J. Geodetic Control Survey monuments described Index Maps 21,26; adjacent Index Maps 20,25

- A. Jersey City, Orange, Weehawken
- B. Hudson-Hudson; Hackensack-Hackensack; Passaic-Lower Passaic

· 10 以此,:Tightysadminist 和原的原则:如此的诗句《Annasa)。

C. 3. Map No. Location Period of Record 242 Berry's Creek at Moonachie, Moonachie Ave. 1964-263 Hackensack River at Harrison, Belleville Tpk. 1967-

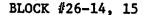
Water Quality Standards: (explained in Atlas Sheet description)
TW2 except where classified TW3

- D. Brunswick Formation (Trb), Stockton Formation (Trs), Diabase (Trdb), Manhattan Schist (Oms)
- E. 1. Physiographic Province: Piedmont
  Subdivision: Triassic Lowlands
  Major Topographic Features: Red Sandstone Plain, Palisades Ridge,
  Hackensack Meadows
  Elevations (ft.above sea level): ridges 250, valleys 0
  Relief (ft.): 250
  - 2. a. Normal Year: 43"
    Dry Year: 36"
    Wet Year: 53"
    - b. January: 32°F July: 74°F
    - c. 245 days. Last killing frost: 4/10; first killing frost: 10/20
- F. Bergen County:
  Riverside County Park and Hackensack River Area
- I. Water Well Records

				Screen			
	•			Setting			
			Year	or Depth	Total	g/m	
	Location	<u>Owner</u>	Drilled	of Casing	Depth	Yield	Formation
	<b>●</b> 26-13-157	Pennick, S.B. Co.	1966	42	352	180/200	Trb
	<ul><li>26-13-177</li></ul>	Breyer Ice Cream Co.	<u>_</u>	•	702	200	11
	◆ 26-13-195	Omni Chemical Corp.	1968	39	300	<b>1</b> 57	11
	<b>26-13-195</b>	Sika Chemical Corp.	1966	25	302	220	11
,	26-13-214	Trubeck Laboratories	1956	191	201	105	Q
	• 26-13-215	Beckton & Dickinson	1966	118	363	251	Trb
(	<b>●</b> 26-13-216	Marijon Piece Dye Co.	1965	45	285	135	11
	<b>●</b> 26-13-226	Hackensack Water Co.	1954	92'11"	103	No test	Q
	<b>●</b> 26-13-234	U.S. Printing Ink Co.	1965	70	220	60	Trb
	<b>●</b> 26 <b>-13-</b> 268	Top Notch Plating Co.	1965	21	300	190	II .
	• 26-13-298	Alpha Refining Co.			400	115	**
	26-13-415	Minit-Man Auto Car Wash	1957	39	180	90	11
	26-13-447	Food Fair Stores, Inc.	1956	30	320	82	†1
	26-13-499	Pfaff Tool & Mfg. Co.	1963	66.5	740	145	11
				•			

26-13-598	Erie Railroad			184	200	Trs
26-13-598	11	•		182	4	Trb
26-13-615	Keystone Metal Finishers	1968	20	200	312	11
<b>●</b> 26 <b>-</b> 13 <b>-</b> 642	11	1950	18	200	76	11
<b>● 26-13-655/</b>	6 "	1960	21	150	150	Trs
26-13-668	Kiesewetter			380	0	Trdb-Trs
26-13-695	North Bergen Realty Co.	•		72	90	Q
26-13-775	Fairmount Chemical Co.	1965	114	300	300	Trb
26-13-775	United Shellac Co.			475	200	11
26-13-921	Miller & Co.			135	925	Q
26-13-924	DeAngelis Packing Co.	1948		45	0	11
26-13-983	Mehl, John & Co.	1913		1020	150	Trdb
26-13-983	11 :	1923		1050	40	11
26-13-984	Mountain Ice Co.			950	0,	Trdb-P6
26-13-987	Steel Laundry Co.			1028	130	11 11
26-13-994	General Refrigerator			1350	.0	Trs-P6
26-13-995	Columbia Amusement Park			200	100	Trs

J. Geodetic Control Survey monuments described Index Maps 21,26; adjacent Index Map 16





- A. Central Park, Jersey City, Weehawken
- B. Hackensack-Hackensack, Hudson-Hudson
- C. 2. Map No. Location
  415 Wolf Creek at Ridgefield

Period of Record 1965-

Water Quality Standards: (explained in Atlas Sheet description) TW2

- D. Brunswick Formation (Trb), Stockton Formation (Trs), Diabase (Trdb), Manhattan Schist (Oms), Serpentine (sp)
- E. 1. Physiographic Province: Piedmont Subdivision: Triassic Lowlands

Major Topographic Features: Red Sandstone Plain, Palisades Ridge,

Hackensack Meadows

Elevations (ft.above sea level): ridges 250, valleys 0

Relief (ft.): 250

- 2. a. Normal Year: 47"
  Dry Year: 39"
  Wet Year: 55"
  - b. January: 32°F July: 74°F
  - c. 242 days. Last killing frost: 4/20; first killing frost: 10/20

#### I. Water Well Records

			Screen Setting			
	į	Year	or Depth	Total	g/m	٠
Location	Owner	Drille	d of Casing	Depth	Yield	Formation
26-14-118	Colorite Color Plastics	1968	52/62	425	20	Trb
26-14-129	Merrill Corp.			300	90	Trs
26-14-146	Gibraltar Corrugated Paper Co	o. 1952	136	170	No test	Trb
26-14-147	Armour Soap Works			116	0	Q
26-14-148	tt *			108	265	ıi
26-14-173	II			330	14	Trs
26-14-182	Gibraltar Corrugated Paper C	o. <u>1</u> 954	105	122	300	Q
26-14-183	Consolidated Bleaching	1950	93	528	44	Trdb
26-14-742	Sweets Co. of America	1955	47'1"	400	105	Trs
26-14-744	Chocolat Menier			500	125	**
26-14-771	Progressive Silk Finishing C	o.		500	125	11

J. Geodetic Control Survey monuments described Index Maps 21,16,26

SUBJECT TO REVISION

WATER WITHDRAWAL POINTS AND NJGS CASE INDEX SITES WITHIN 5.0 MILES OF:

LATITUDE 405012 LONGITUDE 740636

# DRAFT

SCALE: 1:63,360 (1 Inch = 1 Mile)

\* WATER WITHDRAWAL POINTS

NUGS CASE INDEX SITES

MILE AND 5 MILE RADII INDICATED

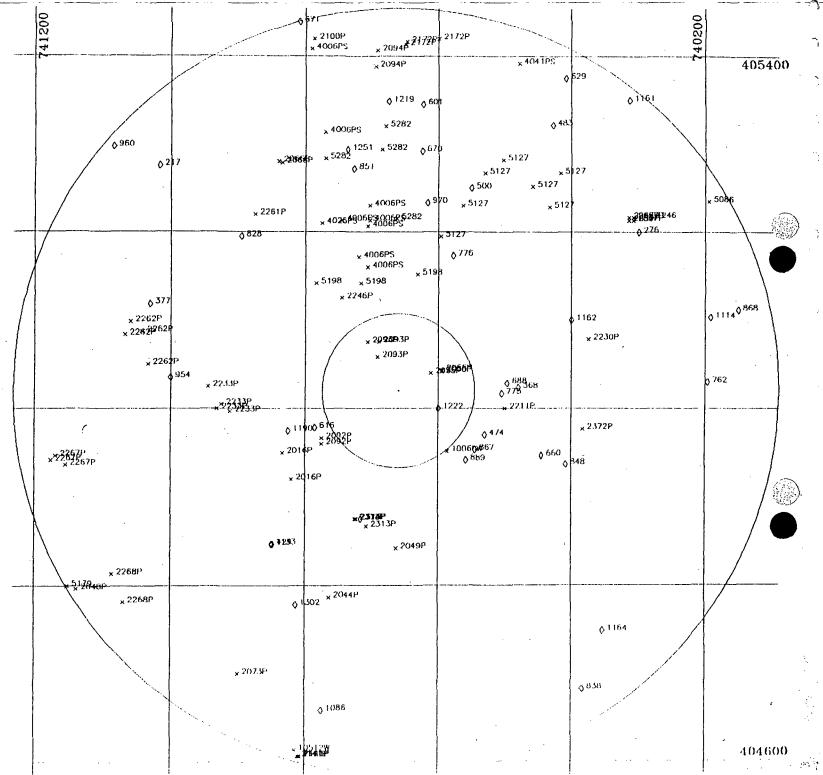
OGS CASE INDEX DATA RETRIEVED FROM: NEW JERSEY GEOLOGICAL SURVEY OU 12/22/87

PLOT PRODUCED BY:

NUMEP DIVISION OF WATER RESOURCES BUREAUT OF WATER ALLOCATION CN-1129 TRENTON, NJ 08625

SUBJECT TO REVISION

DATE: 01/24/89



Page L of NJES 1/86 TREET STIES BITHIN 5.0 MILES OF 405012 LAT. 740636 LON. AS OF 12/22/87 (IN URICE BY SITE NUMBER) - 01/24/89

SITEMM	PENIUR DORP., LYNOMINST. BERGEN CD.  EVELEN STATE FARRWAY & F.T. 45. CLIFTON, PASSAIC CD.  GEFAT BEAR STEINS CD BERGEN CD.  BERGY C CREEK PROJECT, MCCORIDGE. BERGEN CD.  SWEFOOT TURE, CLIFTON, FASSAIC CD.  SEL REX. NUTLEY, ESSEX CD.  U C P JOHNSON, EAST MUTHERFORD. BERGEN CD.  INDOM TANSAICAL, LCOI. BERGEN CD.	LAT	LON	DISTANCE	CONTAM	PMCCDE1	PMODES	STATUST	STATUSZ
<b>174</b>	PENILI CORP., LYNOHURET, BERGEN CO.	404845	740710	1.7		otto	3070	7	S
217	SYMIEN STATE FARMAY & FM. 46, CLIFTON, PASSAIC CD.	405/245		4.3		130	130	ĮO.	
276	GREAT BEAR SHEINE CO., BERGEN CO.	405200	740300	3.8		0103	3070	12	•
348	BEFREY ? CREEK FRAJECT, MOOCRIDGE. BEFREN CO.	405014	740448	1 . 65		100	Q	3	1.)
377	SWEEDS TUEK, CLIFTON, FASSATO CO.	405111	741018	3.4		3070	Ó	O	
429	SEL REX. NUTLEY, ESSEX CO.	404828		2.6		0130	3070	1	
4.74.	U O F JOHNSON. SAST FUTHERFORD. GERGEN CO.	404942	740518	1.3		103	101	1	E
483	INPOST CHETICAL, LODI. <b>HERGEN CO.</b>	405313	740417	4.0		100	3070	1	Б .
5900	1,001 MINICIPAL WELL V.D. CONTAM, LODI. BERGEN CO.(SEE ALSO 629)	405230	740530	2.8	O	170	3070	1	E
60 t	CLRC10 BORAF METALS, GARFIELD, RERGEN CO.	405327	740614	3.7	50	130	3070	1.	
616	GIVALBAN CORP. CLIFTON, PASSAIC CO.	404947	740751	1.2	OO.	130	3070	1	E
629	LODI/MAYWOOD RADIOLOGICAL CONTAM., BERGEN CO.(SEE ALSO 500)		740405	4.5	67	120	3070	1.	E
661)	-SCIPATIFIC CHEMICAL PROCESSING. CARLSTADI, BERGEN CO.	404923	740427	2.1	OO.	0110	3070	1.	C
670	PARTOHLEY SERVICES. BERGEN CO.	405255	740615	3.1	QQ.	0110	3070	1.	·G
67 L	MORTON THICKOL INC PATERSON, PASSAIC CO.	405424	740805	5.0	13	130	3070	2	H
669	DIAMOND SHAMROCK. CARLSTADT, BERGEN CO.	405017	740458	1.4	50	103	101	1	
7662	ANDRILL DIL COSP-LITTLE FERRY TER	405018	740158	4.1	OO	0103	0101	1.	В
775	COSAN CHEMICAL CORP. CARLSTADT, BERGEN CO.	405010	740503	1.4	OO	0120	3070	1	A
776	CLETISS-WRIGHT COPP	405144	740547	1.9	$\odot$	3070 ·	O	1	A
512B	FOLG-KEEPSIE FINISHING CORP (IND CASE?). CLIFTON	405157	740857	2.9	00	0103	3070	1	В
836	SULVATE D CO. SECAUCIS, HERCEN CO.	404649	740350	4.6	00	0110	3070	1.	В
54B	SKETCHLEY SERVICES. BERGEN CO. MORTON THICKOL INC PATERSON, PASSAIC CO. DIAMONI SHAMROCK, CARLSTADT, BERGEN CO. ANDRILL CIL CORP.—LITTLE FERRY TER COSAN CHEMICAL CORP. CARLSTADT, BERGEN CO. CURTISS-WRIGHT CORP FOUGHEEPSIE FINISHING CORP (IND CASE?). CLIFTON SCHARE D CO., SECAUCLS, BERGEN CO. WIGNO CO.—DIV OF SEASFAME COATING, CARLSTADT, BERGEN CO. WHIFFANY PAPER BOAFD CO., INC. GENERAL FORM CORP. F. BUILHERGORD, BERGEN CO.	404922	740405	2.4	00	0103	0101	1 .	B
851	MHIFFANY PAFER BOAFD CO, INC	405243	740716	2.9	(A)	0103	3070	.1.	B
867	GENERALFORM OTRE, E. RUTHERFORD. BEFGEN CO.	404932	740527	1.3	63	0103	0101	1	
868	PEXACO AT MAIN & PARK ST. RIDGEFIELD PARK, BERGEN CO.	405107	740130	4.6	51	3070	O	1.	В
887	J.B.M.T. PRINTING, E. RUTHERFORD, BERGEN CO.	404925	740535	1.3	00	0101	0100	j	B
954	FOOF RICHARD'S FURNITURE, MONTCLAIR, ESSEX CO.V	405021	741000	3.0	O	0140	3070	1	C
960	STEVES AUTO CENTER, CLIFTON, PASSAIC CO.	405258	741050	4.9	O	0	O	3	
970	8.C. ELECTROPLATING, GARFIELD. BERGEN CO.	405220	740610	2.5	0	0	O	3 .	
1085	6 M Z CONCRETE, NORTH ANLINGTON, BERGEN CO.	404635	740745	4.3	53	0103	()	· 1	B (3)
1114	RIDSEFIELD PARK EXXON, RIDSEFIELD PARK, BERGEN CO.	405102	740155	4.2	63	0103	0100	1.	6 KW
1133	HARBOT TOLL AND OIL, MUTLEY, ESSEX CO.	404828	740830	2.6	53				
14/51	GAR-SYLVAYIA, TETERBORD, BERGEN CO.	405330	740308	4.9	53			-5	
1162	UNITED WIRE HANCER COFF. HASBROUCK HEIGHTS, BERGEN CO.	405100	740400	2.5	52			3	
1164	FLAZA AMODO/KEDKEY'S EXXON, SECALAUS, HUOSON DD.	404729	740332	4.1				3	•
1190	ITT AVIONICS. 100 KINGGLAND RD., CLIFTON, PASSAIC CO.	404945	740815	1.5	04			3	
1219	EMPLIE OVERALL, ELMWOOD PARK, BERGEN OD.	405329		3.8	OO	0110	3070	1.	C
1222	WALLINGTON WATER DEFT., WALLINGTON. BERGEN CO.	405000		0.6	(XO	0120	3070	1	C
1246	STOME NYCHI, S. HACKENSACK. BERGEN CO.	405210	740249	4.0	63	Otoo	3070	1.	C
1251	GARFIELD WATER DEFARTMENT, GARFIELD, BERGEN CO.	405256	740722	3.2	01	0120	3070	j	
1302	SHIFFANY PAPER BOARD CO, INC GENERAL FOAM CORP, E. RUTHERFORD. BERGEN CO. 1.9.M.T. PRINTING, E. RUTHERFORD. BERGEN CO. J.9.M.T. PRINTING, E. RUTHERFORD. BERGEN CO. 5.0.P.C. ELECTROPLATING, GAFFIELD. BERGEN CO. 6 M Z CONCRETE, NORTH ARLINGTON, BERGEN CO. 6 M Z CONCRETE, STANDOOD FARK, BERGEN CO. 6 M	404747	740808	3.1	00	0130	3070	1	E

Fage	L of NJGS CASE INDEX SITES WITHIN 5.0 MILES OF 405012 LAT. 740636 LO	N. AS OF 1	2/22/87	(IN OFFICER	BY DECKE	ASING LO	NGITUDE) -	- 01/24/89	?	
STIENUM	NOME	LAT	LON	DISTANCE	CONTAM	FMCCODE1	FYEDUE2	STATU51	STATUS2	
940	STEVES AUTO CENTER, CLIFTON, PASSAIC CÓ.	405258	741050	4.9	O	0	0	3		
377	SWEPCO TUBE, CLIFTON, PASSAIC CO. GARDEN STATE PARKWAY & RT. 46, CLIFTON, FASSAIC CO.		741018	3.4	**	3070	ŏ	Õ		
217	GARDEN STATE PARKWAY & RT. 46, CLIFTON, PASSAIC CO.	405245	741010	4.3		1,50	120	Ô		
954	FOOR RICHARD'S FURNITURE, MONTCLAIR, ESSEX CO.	405021		3.0		0140	3020	ì	C	
828	FOOR RICHARD'S FLENITURE, MONTCLAIR, ESSEX CO. FOUGHKEEPSIE FINISHING CORP (2ND CASE?), CLIFTON HARBOT TOLL AND OIL, NUTLEY, ESSEX CO. SEL REX. NUTLEY, ESSEX CO. I'll AVIONICS, 100 KINSSLAND RD., CLIFTON, FASSAIC CO. FESSEXCOL CORPANICATIONS CAUSE CORP. DELEVITURE CORP.	405157		2.9		0103	3070	1	B	
1133	HYREOT TOLL AND OIL, NUTLEY, ESSEX DO.	404828		2.5		2		3		
429	SEL REX. NUTLEY, ESSEX CO.	404828		2.5		0130 .	3070	1		
1190	ITT AVIONICS, 100 KINGSLAND RD., CLIFTON, PASSAIC CO.	404945	740815	1.5				ŝ		
1.502	FESEARCH ORGANIC/INORGANIC CHEM CORP, BELLEVILLE, ESSEX CO. MORTON THICKOL INC., PATERSON, PASSAIC CO. GIVALDAN CORP, CLIFTON, FASSAIC CO. G M Z CONCRETE, NORTH ARLINGTON, BERGEN CO. GARFIELD WATER DEPARTMENT, GARFIELD, BERGEN CO. WHIPPANY PAPER BOARD CO, INC PENICK CORP., LYNDHLRST, BERGEN CO. EMPIRE OVERALL, ELMWOOD PARK, BERGEN CO. SKETCHLEY SERVICES, RERGEN CO. OLACIO SCRAP METALS, GARFIELD, BERGEN CO. WALLINGTON WATER DEPT., WALLINGTON, BERGEN CO. OLACIO WATER DEPT., WALLINGTON, BERGEN CO. OLATISS-UNIONS OF BUTHERSORD BERGEN CO.	404747		3.1		0130	3070	1		
671	MORTON THICKOL INC., FATERSON, PASSAIC CD.	40/54/24		5.0		130	3070	2	  -	
616	GIVALDAN CORP, CLIFTON, FASSAIC CO.	404947		1.2		130	3070	1	E	
1086	G M Z CONCRETE, NORTH ARLINGTON, BERGEN CO.	404635		4.3		0103	Ó	1	B	
1251	GARFIELD WATER DEPARTMENT, GARFIELD, BERGEN CO.	405256		3.2		01:20	3070	1		
851	WHIPPANY PAPER BOARD CO. INC	405243		2.9		0103	3070	1	Es	
174.	FENICK CORP., LYNDHURST, BERGEN CO.	404845		1.7		0110	3070	2	Ĵ	
1219	EMPTRE OVERALL. ELMWOOD PARK. BERGEN CO.	405329		3.8		0110	3070	1	r)	
670	SKETCHLEY SERVICES. BERGEN CO.	405255		3.1		0110	3070	1	6	
501	O ROTO SORAP METALS. GARETELD. BERGEN DI.	405327		3.7		130	3070	1	***	
970	E.C. ELECTROPIATING, GARETELD, RESGEN CO.	405220		2.5	Ú	0	0	a.	•	
1222	WALL INTOIN WATER DEET. WALL INGTON. PERGEN DO.	405000		0.6	=	0120	3070	1	C	
776	OBTIES LEIGHT ODER	405144		1.9		3070	0	1	A	
689	J.B.M.T. FRINTING; E. RUTHERFORD, REFGEN CO.	404925		1.3		0101	0100.	1	8	
500	LODI MUNICIPAL WELL V.O. CONTAM, LODI, BERGEN CO.(SEE ALSO 629)	405230		2.8	Ö	120	3070	1	Ē	
				1.3	-	0103	0101	l.	les:	
474	LLO P. JOHNSON FAST BLOHFFFERD FEBRUARY	404942		1.3		103	101	1	E	
775	CHEAN CHEMICA COSE CAN CANT ESSENTIA	405010		1.4		0120	3070	1	A	
488	DIAMENTA CHANGETON CAST CHANT DECEMBED OF	405017		1.4		103	101	1	,	
368	TOTAL CONTRACT CONTRACTOR AND	405014		1.5		100	()	1	Ĭ)	
ందం దద0	GENERALFOAM CORP, E. RUTHERFORD, BERGEN CO.  U O P JOHNSON, EAST RUTHERFORD, BERGEN CO.  CUSAN CHEMICAL CORP, CARLSTADT, BERGEN CO.  DIAMOND SHAMROCK, CARLSTADT, BERGEN CO.  BERRY'S CREEK PROJECT, WOODRIDGE, BERGEN CO.  SCIENTIFIC CHEMICAL PROCESSING, CARLSTADT, BERGEN CO.  INTONI CHEMICAL, LODI, BERGEN CO.  LODI/MAYWOOD RADIOLOGICAL CONTAM., BERGEN CO.(SEE ALSO 500)  VORAC CO.—DIV OF SEAGRAVE COATING, CARLSTADT, BERGEN CO.	404928		2.1		0110	3070	1	G.	
483	TAMENT CARACTEC I CONTRACTO I CONTRACTOR CON	405313		4.0		100	3070	1	6	
529	THE CASE CARTIFORMS AND THE PROTECTIVE CARRIED CASE CARDOCALE CASE CARDA CASE CASE CASE CASE CASE CASE CASE CAS	405345		4.6		120	3070	1	E	
948	TRUBERTA BATTANING PARENTAL CONTROLL CONTROLL CONTROLL CONTROLL CONTROL CONTRO	404922		2.4		0103	0101	1	8	
OHVD	UNITED WIRE HANGER CORP. HASBROUCK HEIGHTS, BERGEN CO.	405100		2.5		See also See See	OTOI	3	£.4	
1. 1. ()	SQUARE D DD, SECAUCUS, BERGEN CD.	404649		4.6		0110	3070	1	В	
838		404729		4.1	1202	77 L L L	20//10/	3	15	
1164	FLAZA AMDOD/KEDKEY'S EXXON, SECAUAUS, HUDBON CO.	405330		4.9	entroj			- 3- 13- 13-		
1161	GTE-SYLVANIA, TETERBORD, BERGEN CO.	405200		3.8		0103	3070	2		•
276	GREAT BEAR SPRING CO., BERGEN CO.	405200		4.0		0100	3070	1	С	
1245	STONE NYCAL, S. HACKENSACK, BERGEN CO.	405018		4.1		0103	0101		L H	
762	ANDRILL OIL CORP.—LITTLE FERRY TER			4.2		0103	0100	1		
11)4	RIDGEFIELD PARK EXXON, RIDGEFIELD PARK, BERGEN CO.	405102 405107		4.5		3020	0100	1	6 B	
868	TEXACO AT MAIN & PARK ST., RIDGEFIELD FARK, BERGEN CO.	400107	5.4E3.E32.5	*****	c. J. I.	, (A,171)	9	J.	TO	

Page 2 of PRELIMINARY SURVEY OF WATER WITHDRAWAL FOINTS WITHIN 5.0 MILES OF 405012 LAT. 740636 LON. (IN ORDER BY DECREASING LONGITUDE) — 01/24/89

NUMBER	NAE	SCURCEID	LOCID	LAT	LON	LLACC	DISTANCE	CULINTY	MLN	DEFTH	ŒO1	GEO2	CAFACTTY
4006PS	DUNDEE WATER FOWER & LAND CO.	DUMDEE CAN	PANTASOTE	405204	740704	T	2.2	"fa			grotages,		•
4006F5	ULINDEE WATER FOWER & LAND CO.	DUNDEE CAN	CHELTON CO	405208	740702	÷	2.3	31	02 02		5F		
HOOSES	DUNDEE WATER FOWER & LAND CO.	DUNDEE CAN	PASSAIC IN	405218		Ť	2.4	31			en.		
20948	D.A.K. MANUFACTURING CORP.	2605037	4	405353	740657	F	4.2	03	022	250	GTRB		60
20939	CARVAL KENT FOOD COMPANY, INC.	2504382	3	405035		T	0.5	0.3	$\frac{11}{12}$	4.70	GIRB		430
2094P	U.A.K. MANUFACTURING CORP.	2600466	1	405404	740655	F	4.4	03	1.1	470	GIRB		*45.07.2
20946	D.A.K. MANUFACTURING CORP.	4600210	2	405404		Ü	4.4	03 03	11		STRE		
2094F	D.A.K. MANUFACTURING CORP.	4600211	3	405404		Ü	4.4	03	11		GTRS		
27931-	OFWAL KENT FOOD COMPANY, INC.	2604341	2	405045	740654		0.7	03	1:2	300	GIRB		150
5082	GARFIELD WATER DEPARTMENT	2604016	1A	405255	740651		3.1	03	21	400	GTRB		300
ENDER	GARFIELD WATER DEPARTMENT	2604063	2	405312	740648	U	3.4	03	21	475	GIRB		150
2049P	SIKA CORPORATION	2604036	1	404825	740538		2.0	03	32	302	GTRB		220
5282	GARFIELD WATER DEPARTMENT	2504010	5	405209	7406333		2.2	03	21	276	GTRE		150
2172F	PARK 80-KIDDIE ASSOCIATES	2504234	1	405408	740630	5	4.5	03	57	400	GIRB		300
21729	FARK 80-KIDDIE ASSOCIATES	2604235	2	405410	740629	S	4.6	03	57	400	GTRB		300
21 <b>72</b> F	PARK 90-KIDDIE ASSOCIATES	2605301	3	405410	740529	3	4.6	03	57	300	GTRB		Ö
5198	WALLINGTON ECROLIGH	2603933	DUI.	405131	740619		1.5	03	65	400	GTEB		140
20556	GANES CHEMICAL, INC.	2600005	4	405024	740507	F	0.5	03	05	525	STRB		90
21726	PARK 80-KIDDIE ASSOCIATES	2604104	4.	405412	740600	8	4.6	03	57	(300)	erre		
51:27	LODI BOROLGH	2601037	TERRACE	405157	7405E8		2.1	03	31	507	GTRB		190
2055F	GANES CHEMICAL, INC.	45000B0	2	405026	740557	F	0.6	03	05	490	GTEB		22000
2055	GANES CHEMICAL, INC.	2604277	5	405025	740557	F	0.6	03	OC5	436	GTEB	•	500
10050W	CARLSTDADT-E. RUTHERFORD B.O.E	2603920	1.	404931	740552	t:	1.0	03	TIP	225	GIRB		1:25
5127	LODI BOROUGH	2501010	GARFIELD	405218	740538		2.6	03	31	459	GTRB		1,50
5127	LODT BOROLISH	4600068	ARMOT ST.	405240	740518		3.1	63	31	. 300	GTRB		1.450
5127	LODI BOROUGH	4600069	4	405249	740502		3.3	03	31	307	GTRB		295
5127	LOOI BOROLISH	4600070	5	405249	740502		3.3	OC	331		GTRB		ngangin)
5127	LODI BOROUGH	4600071	7 .	405249	740502		20 20	os	31	352	GURB		Trans.
2211F	HENKEL PROCESS CHEMICALS, INC.	4600125	1.	405000	740500		1.4	03	Ot5	170	6050		<b>5</b> 00
4041FS	STEPAN CHEMICAL COMPANY	SADDLE RIVER		405335	740447		4.5	03	54		SPSAD		2000
5127	LODI BOROUGH	2603183	CORABELLE	405231	740435		3.2	03	31	470	GTRB		500
5127	LODI EOROUGH	4600072	LAWKENCE	405217	740420	U	3.1	03	31	373	GIRB		500
512/	LODI BOROUGH	4600073	COLUMBIA	405240	740410	U	3.5	O3	31	404	GTAB		375
237.25	YOU-HOO OHOQOLATE BEV. CORP.	2602067	1	404946	740050		2.5	OZ.	OC)	27032	GTF65		$\mathcal{K}_{\mathcal{F}}$
23725	YOO-HOO CHOCOLATE BEV. CORP.	2602933	. 2	404946	740350		2.5	03	055	383	GIRB		50
2373F	YOO-HOO CHOCCLATE BEV. CORP.	2603053	3	404946	740350		2.5	O3	(52)	378	GIEG		::
22397	HOFFMAN LARCOHE INC.	2406268	1	405047	740345	T	2.6	41	0.3	7,4()	90		760
2057F	SPINNERIN YARN CO., INC.	<b>46</b> 001 <i>7</i> 7	O	405208	740309		3.7	03	59	404	GTKG		6.5
2057P	SPINNERIN YARN CO., INC.	2603018	3	405210	740309		3.8	03	S.C.	400	GIRB		50
-2057F	SPINNERIN YARN CO., INC.	4500063	2	405210	740305	ļ	3.8	03	59	435	6756		Ò
20578	SPINNERIN YARN CO., INC.	4600176	4	405208	740305	=	3.8	0.3	57	400	G170s		1360
2057F	SETIMBERIN YAFAN CO., INC.	26115 <del>99</del>	5 FROFOSED	405210	740305	F	3.8	03	59	,q-+,	GTRES		
5086	HAVINENGACK WATER COMPANY	4600065	2	405221	740157		4.8	05	04	5330	GTRB		180

	<b>为证金利</b> 。	90UFCEID	LCCID	LAT	LON	LLACC	DISTANCE	COLMTY	MIN	DEPTH	9E01	u <b>d</b> itir,	CANACT.	i. A.
20426	GISM SIAGE COUNTRY CLUB	2604134	2	404925	741145	S	4.6	13	QZ	300	EHF93		1720 A.A.	
26719	BLEN RIDGE COUNTRY CLUB	4600168	3	404928	741141		4.5	135	03	400	GTEB		10	
5257P	GLEN RIGHE COUNTRY CLUB	2601852	1	404922	741132		4.4	1.3	02	3513	GTRB		400	
179	ELCOME IELD TOWN	2504763	1	404800	741130	T	5.0	13	02	380	GTRB		330	
2049P	MATIONAL STATION & CHEMICAL	2604314	1	404758	741122		4.9	1.35	02	410	GTEP		$\mathcal{A}(\mathcal{K})$	
26F	FOREST HILL FISLD ULUS	FO\D		404808	741051		4.4	13	02	14	SP		1200	
226PF	FUREST HALL FIELD GLUB	2604258	1	404749	741041		4.5	1.3	02	233	GTEB		60	
22420	UPPER MONICLAIR COUNTRY CLUB	FOND	SW	405050	741040	T	3.6	1.3	0.2	12	(30SI)		1.1 (X)	
2541P	UPPER MONICLAIR COUNTRY CLUB	2604390	2	405059	741035	1	3.6	1.3	02	335	6TRB		132	
(24)J	LEFER MUNICLAIR COUNTRY CLUB	2601199	1	405052	741025		3.4	31	02	490	(STRE		90	
726/2P	UPPER MONTOLATE COUNTRY CLUB	2504825	Š	405030	741020	т	3.3		02	(3()(C)	GTEB		60	(F3)
283P	HIFFMANN-LAFOCHE INC.	4600156	32	405015	740927			31	OC:	650	GTRB		260	(14.47)
GRAP GRAP	HOFFISSIN-CAROOHE INC.	4600155	20	405000	740919			13	16	402	GTRB		100	51724 —
errena Serrena	HOFFMANN-LARGO-E INC.	4600157	23	405003	740715		2.3	31	02		GTEB		1.65	
233F	HOFFMANN-LARGONE INC.	4600159	37	4049:58	740907	-		31	02	720	GTEB		300	
5073P	INTERNATIONAL MINERALS & CHEM.	4600092	1	404700				13	01	352	GTKB.		100	
3073P	IMPERNATIONAL MINERALS & CHEM.	4600093	2	404700		Ť	4.2	13	01	400	GTEE		150	
3073F	INTERNATIONAL MINERALS & CHEM.	2605113	3	404700	740900	•	4.2	13	Õî.	400	GTRB		150	
::07:31 2261P	FRITZCHE DOOGE & OLOOTT	2602812	2	405212	740845			31	02	600	GTEB		218	
206 <b>6</b> P	MILES LABORATORIES	2603833	2	405248	740824			31	02	300	GTEB		200	
1066P	MILES LABORATORIES	2604613	3	405247			3.3		02	408 .	GTRB		200	
055P	TIT AVIONIOS DIVISION	2601834	1	404930		T	1.7	13	16	500	GTRB		150	
oggan Oggan	ITT AVIONICS DIVISION	2601835	2 2	404930		,	1.7	13	16	450	GTRB		150	
016F	TIT AVIONICS DIVISION	2601905	- <u></u> 3	404930	740820		1.7	13	16	500	GTEB		150	
016P	TT: AVIONICS DIVISION	26046 <del>9</del> 2	4/SEALED	404712			1.8	13	1.6	500	GTRB		200	
0512W	V.H. SWENSON CO., INC.	2602717	1		740809	_		17	07	400	GTRB		150	
141P	FFAFF TOOL & MANUFACTURING/CO.	2604269	3.	404604	740806	F		17	07	550	GTRB		155	
141F	PERFET TOOL & MANUFACTURING CO.	2604711	4	404604	740806	F		17	07	333	GTRB		, to tony time	
141P	FFAFF TOOL & MANUFACTURING CO.		12	404604	740805	j <del>.</del>	4.9	17	07	740	GTRB		140	
141F	FFAFF TOOL & MANUFACTURING CO.	2602162	1	404604	740004			17	07	590	GTRB		175	
1741F 006PS	DUNDEE WATER FOWER & LAND CO.	DUNDEE LK.	MARCAL CO.	405405	740754	T	4.6	03	11	W 1 2 2	SFFAS		2703	
100P -	MARCAL PAPER MILLS. INC.	4600008		405412	740752	F	4.7	03	11	308	GTRB		150	
100P	MARCAL BAPER MILLS, INC.	4600009	1		740752	Ė.	4.7	03	11	330	GTEB		280	
100P		4600010	2	405412		F	4.7	03	11	325	GRB		250	** E32
илат 1000	MARCAL PAPER MULLS. INC.	4600011	3			j=	4.7	03	11	282	GIFB		80	
	MYRCAL PAFER MILLS, INC.		4	405412 405412		F	4.7	03	11	al.Chal.	GTRB		125	
100P 100P	MAFCAL PAFER MILLS, INC.	4600012	5		740752		4.7	03 03	11		GTEB		300	
	MARCAL PAPER MILLS, INC.	4600013	6	405125		'	1.8	03		503	GTEB		80	
198	DATINGTON ECHCLICA	4600075 4600074	8		740750				65 65	506				
198 	WALLINGTON BOROLOH		5	405125		C::		03	65 00	297	GTRB		150	
092F	GIVALDAN CORFORATION	4600006	6	404936	740745			31	02	250			235	
092P America	GIVAUDAN CORPORATION	4400007	.7		740745		1.2 2.4		02 21	All Control	GIRB SPPAS		1 tO	
	KALAYA CHEMICAL, INC.	PASSAIC RIVER	a a maren				5.5							
	DUNDEE WATER FOWER & LAND CO.	DUNDEE LAKE	G.S. PAPER	44UEDOVUM a commence	7.44077.460	•			21	A COURT	SPPAS		Arres c	
282 Salam	CONSTRUCTOR OF SEPARATEMENT	2604064	8C	405250	740738	q	3.2		21	405 300	GTRB		4(x)	
)44P 344C	CHARLO UNION CO.	4600002			740738		2.8 1.4	,	39 75	300	GTRB		80	
MAP MAD	FORM AND DATETES INC.	2604169	, <u>t</u>	44000 J. 100 44000 J. 300	740727 740727	11		03 . 03	65 65	300	GTEB		2000	
246P	FARMAND DAIRTER INC.	2304250	eny Res Sulf Thematics de Res						65 00	300	GTRB SP		185	
A Marie Comment	PLUDEE MATER FORER & LAND CO.	DUNDEE CAN	MHILLERMY		240227 200715	,	2.3		02	real re			4 (CDE)	
51.3P	PENCO OF LYADYAST INC.	4600173		404845	74U71D	r::	1.8		32	313	OTEB		185	
MIN	HENCO OF LYNGHIEST INC.	2601699	3	40/1845	740715	Γ"	1.8		32	410	GTRE		150) 130)	
SiSP	PENCO OF LAMBURST TWO.	46001.72	1 4 ***********************************	404845	7403714	-1-	1.8		32	267	GIRB		130	
006FS	DUNDEE WATER POWER & LAND CO.	DUNDEE CAN	OPONITE CO	405143	74O/1Z	1	1.8	4.4	07		9P			
195	WALLINGTON BOROLIGH	2603027	LESTER ST	405125	and the property of the		1.5	y runge	65	4(X)	GIES		130	

Page	2 of FRELIMINARY SURVEY OF WAT	TER WITHDRAWAL FO	NIHTIW STAIC	5.0 MILE	S OF 405	1012 LAT	. 740636 L	.CN. (1N	CROEF	BY FEN	MLT NUME	ER) - (	01/24 <b>/89</b>
NUMEER	NAME:	SOURCEID	LOCID	LAT	LON	LLACC	DISTANCE	COUNTRY	MUN	OEFTH	ŒO1	0E02	CAPACITY
	UPPER MONTCLAIR COUNTRY CLUB	2604390	2	405059	741035		3.6	13	02	333	GTRB		132
	LEFER MONTOLAIR COUNTRY CLUB	2604825	3	405030	741020	7	3.3	31	0/2	300	GIFB		60
	UPPER MONICLAIR COUNTRY CLUB	FOND	SW	405050	741040	7	3.6	13	02	12	GOSD		1100
2267P	CLEN RIDGE COUNTRY CLUB	2601852	1	404922	741132	S	4.4	13	0.2	r gazenge Signatur	(57F/B		400
	GLEN RIDGE COUNTRY CLUB.	2604134	2	404925	741145	S	4.6	13.	02	300	GTRB		200
	GLEN RIDGE COUNTRY CLUB	4600168	35	404928	741141	F	4.5	13	GB	400	GTRB		10
7:268P	FOREST HILL FIELD CLUB	2604258	. 1	404749	741041	8	4.5		02	238	GTRB		<i>6</i> 0
	FOREST HILL FIELD CLUB	PONO		404808	741051	F:::	4.4		0.2	14	SE.		1200
23137	PENCO OF LYNDHURST INC.	4600172	1	404845	740714		1.8	03	32	257	GTEG		110
	FENCO OF LYNDHURST INC.	4600173	2	404845	740715		1.8	03	ngsang Sahala	313	6066		185
	PENCO OF LYNDHURST INC.	2601659	3	404845	740715	l <del></del>	1.8	03	32	410	GTF&		150
	PENCO OF LYMDHURST INC.	2603804	4	404840	740705	F	1.8	03	32	352	GTRB		185
23725	YOO-HOO CHOCOLATE BEV. CORP.	2602067	1.	404946	740350		2.5	03	05	303.	GTEB		90
	YOO-HOO CHOCOLATE BEV. CORP.	2602933	2	404946	740350		2.5	03	05	393	GTRE		570
	YOOHOO CHOCOLATE BEV. CORP.	2603053	-2	404946	740350		2.5	03	$()^{(2)}$	378	6TRB		55
4006FtS	CUNDEE WATER FOWER & LAND CO.	DUNCEE LAKE	G.S. PAPER	405308	740742	T	3.5	O3	21		EFPAS		
	DUNDEE WATER FOWER & LAND CO.	DUNDEE CAN	MHILLAMA	405208	746727	T	2.3	31	OZ		36		
	DUNDEE WATER FOWER & LAND CO.	DUNDEE CAN	CHELTON CO	405208	740702	T	2.3	31	02		90		
	DUNDEE WATER FOWER & LAND CO.	DUNDEE CAN	OKONITE CO	405143	740712	T	1.8	31	07		SP,		
	DUNDEE WATER FOWER & LAND CO.	DINDEE LK.	MARCAL CO.	405405	740754	T	4.6	03	1.1		SFPAS		
	DUNDEE WATER FOWER & LAND CO.	DUNDEE CAN	PASSAIC IN	405218	740702	T	2.4	31	02		9P		
	DUNDEE WATER FOWER & LAND CO.	DUNDEE CAN	TUCK IND.	405136	740704	T.	1.7	<b>31</b>	07		SP'		
	DUNDEE WATER FOWER & LAND CO.	DUNDEE CAN	PANTASOTE	405204	740704	T		31	$O_{\omega}^{\Sigma}$		SP		
40/2 <del>1</del> 7FS	KALAMA CHEMICAL, INC.	FASSAIC RIVER		405206	740745	T	2.4	03	21		SPRYS		
4041FS	STEPAN CHEMICAL COMPANY	SADDLE RIVER		405255	740447		4.6	03	54		SESAD		20(x)
5086	HACKENSACK WATER COMPANY	4600065	2	405221	740157		4.8	03	()vIr	550	GIRB		180
5127	LODI ECROUGH	4600068	ARNOT ST.	405/240	740518		3.1	03	31	300	GTRB		160
	LODI ECHOLIGH	4600069	4	405249	740502		3.3	03	31	307	STRE		275
	LODI BOROLGH	4600070	5	405249	740502		25 P. 125	0.3	31	300	GTRB		Carrier.
	LODI EOROLGH	4600071	7	405249	740502		3.3	03	31	25.50	GIRE		nytondor survivos
	LODI BOROUGH	4600072	LAWRENCE	405217	740420		3.1	03 03	34	373	GTRB		500
	LODI BOROLGH	4600073	COLUMBIA	405240	740410	U	3.5	03	31 31	409 507	GTEB		375
	LODI BOKOLEH	2601037	TERRACE	405157	740558		2.1 2.6	03 03	31	459	GTRB GTRB		350
	LODI EOROLGH	2501010	GARF TELLD	405218	740538		3.2	03	31 31	470	GTRE		150
and the street	LODI BOROUGH	2603183	CORABELLE	405231 404800	740435 741130	7.		13	O2	380	GTR6		200 330
5179	ELOOMFIELD TOWN	2604763	I DUL	405131	740619	1	1.5	03	<del>6</del> 5	400	GTRB		140
5198	WALLINGTON BOROLGH	2603933	LESTER ST	405131	740710		1.5	03	65	400	GIRB		130
	WALLINGTON BOROLOH	2603027 4600075	8 8	405125	740710		1.8	03	65	503	GTKB		80
	WALL INSTAN ECROUGH	4600073 4600074	<b>8</b>	405125	740750		1.8	03	45	506	GIRB		150
gara yang yang	WALLINGTON ECROUSH		1A	405256	740651		3.1	03	21	400	GIRB		300
5282	GARFIELD WATER DEPARTMENT	2604016	IA Z	405312	740648	11	3.4	03	21	475	GITE		150
	GARFIELD WATER DEPARTMENT	2604063	5 5	405209	740638	W	2.2	03	21	**************************************	erse		150
	GARFIELD WATER DEPARTMENT	2604010	5 6C	405250			3.2		21	405	GTAB		400
	SAFFIELD WATER DEPARTMENT	2604064	CH	-termenti	7 m27 m2		**** # .#***		-Fire B	r.c.al			Contract Contract

Number of Usservations: 99

Page 1 of FPELINGNERY STRAND OF GENER WITHDRAWAL FOUNTS WITHIN 5.0 MILES (F 405012 LAT. 740636 LON. ON OFFER BY PERMIT MINER) - / 1/724 783

PLYME	M/Ash:	SOLECE ()	ECCT()	LAT	1.1.14	LLACC	DISTANCE	COUNTY	MIN	DEPTH	GEC1	GH,CG;	LYAFYY.	TIV
100500	COPLETDADILE, BUTHERFORD B.O.E	026039030	1	404931	740552	i:	1.0	O.S.	1.2	223	STRB		1,245	
105324√	V.H. SWENSON CO., DVC.	2/502717	1	404508	740809	la.	4.9	17	07	A[t(X)]	GIFB		1530	
2016F	IT: AMONICS DIVISION	2601834	1	404930	7408(20	T	1.7	1.3	16	500	GTHE		1:70	
	ITT AMONICS DIVISION	2601835	2	404930	74(320)		1.7	1.3	16	450	GIRB		150	
	OTT AVIONUES DIVISION	2601905	3	404930	740820		1.7	1.3	16	500	GTEB		1 500	
	ITT AMONICS DIVISION	2604692	4/SEALEI)	404912	740812		1.8	13	15	500	GTEB		200	
2044P	GEVAND UNION CO.	4600002		404752	740738	$\mathfrak{S}$	2.8	0.3	39	300	GIRB		80	
2049	NATIONAL STAPON & CHEMICAL	2604314	1	404758	741122	T	4.9	13	02	410	GTRE		200	
20496	SIKA CURPURATION	2604036	1	404825	740638		2.0	03	352	302	GTEB		220	
2035	GAMES CHEMICAL, THE.	4600080	2	405026	740557	<b>F</b> ::	0.6	03	O(5)	490	GTRB		200	
	GAMES CHEMICAL, INC.	2600005	4	405024	740507	<b>J</b>	0.5	03	$O_{eg}$	526	GTRB		80	
	GOVES CHEMICAL, INC.	2504277	5	405025	740557	F	0.6	03	$O_{\rm m}$	430	GTRB		30	
3557F	SPINNERIN YARN CO., INC.	46001.77	O	405208	740309	l <del></del>	3.7	0.3	59	404	GTRE		65	- {
	SPINNERIN YAFM CD., INC.	4600083	2	405210	740305	F	3.8	03	59	435	GTRB		$\circ$	
	SPINNERIN YARN CO., INC.	2603018	- 3	405210	740309	1=-	3,8	03	59	400	GTEB		50	
	SPINNERIN YARN CO., INC.	4600176	4	405208	740305	F	3.8	O.S.	59	$4\ell(X)$	GTRB		140	
	SPINNERIN YARN CO., INC.	2611599	5 FROFOSED	405210	740305	E.	. 3.8	03	127(22 127/2		STRE			
$\mathcal{D}(0)(\gamma e^{i \frac{\pi}{4} L_{2}})$	MILES LABORATORIES	2403833	2	405248	740824	М	3.4	34	02	300	GTF®		200	
	MILES LABORATORIES	26/4613	3 "		740821		3.3	31	02	408	GHRB		200	
2073F	INTERNATIONAL MINERALS & CHEM.	4600092	1	404700	740900	T	4.2	13	01	352	GIRB		100	
	INTERNATIONAL MINERALS & CHEM.	4600093	2	404700	740900	T	4.2	1.3	01	400	GTF03		150	
	INTERNATIONAL MINERALS & CHEM.	2505113	3	404700	740500	T	4.2	13	01	400	GTRB	¥	150	
2092F	GIVAUDAN CORPORATION	4600006	6	404936	740745	F	1.2	31	02	297	GTRB		235	
	GIVALEYM CLASSCOWATION	4600007	7	404940	740745	F	1.2	31	02	250	GTRE		110	
. 2093P	ORAYAL KENT FOOD COMPANY, INC.	2604317	1	405045	740704	F	0.8	0.3	12	580	GIRB		150	
	OFWAL MENT FOCO COMPANY, INC.	2604341		405045	740654	S	0.7	03	1.2	300	GTRB		150	
ensurates espera	ORNAL RENT FOOD COMPYNY, INC.	2604382	3	405035	740655	T	0.5	03	12	470	GTRB		430	
20949	D.A.K. MANUFACTURING CORP.	2600466	1	405404	740655	F	4.4	03	11		GTRB			
	O.A.K. MANUFACTURING CORP.	4600210	2	405404	740655	IJ	4.4	03	11		GTEB			
	D.A.K. MANUFACTURING CORP.	4600211	3 4	405404		U F	4,4	03 03	11	compo	GTRB		77.	
21000	O.A.E. MARIEWOREMAN CORF. NAMED AND ADDRESS AND	2605037 4600008		405353 405412	740657 740752	F .	4.2 4.7	03	11	250 308	GTRB GTRB		60 150	
ati istoriali	MARCAL PARER MILLS. INC.	4600009	1 2		740752	F .	4.7	03	11 . 11	330	GTEB :		280	
	MARCAL FATER MILLS, INC.	4600010	3	405412 405412	740752	F	4.7	03	1.1	325	GTEB		2607 2600	1
	MARCIAL FREER MILLS. INC.	4600011	4	405412	740752	E.	4.7	03	11	2332	GTEB		30	
	MARCAL PAPER MILLS. INC.	4600012	5	405412	740752	F.	4.7	03	11	£2352.	GTRB		125	
	MARCAL FAFER MILLS. INC.	4600013	- 6	405412	740752	(=:	4.7	03	11		GTRB		300	
214JP	PENER TOOL & MANUFACTURING CO.	2602162	1	4046.04	740804	j=	4.9	17	07	590	GTEB		175	
area ate	FENTE FOIL & MANAGERING CO.	2602735	2	404604	740(305	t <u></u>	4.9	17	07	740	GTRB		140	
	PEAFE TOOL & PRANCEACTURING OD.	2604269		404504	740806	j <del>.</del>	4.9	17	07	550	GTRB		155	
	FFAFF TOUL & MANUFACTURING CO.	2504711	4	404604	740606	F	4.9	17	07	333	GTEB		di Serita I	
21726	PARK SO-KIDDIE ASSOCIATES	2604234	1.	405408	740630	S	4.5	03	57	400	GTRB		300	
	PARK BO-KLODIE ABBOCIATES	2604235	2.5 2.5	405410	740629	S	4.6	03	57	400	GTRB		300	
	PARK BO-KIDDIE ASSOCIATES	2605301	3	405410	740629	S	4.5	03	57	300	GIRB		0	
	PARK BO-KILDDIE ASSOCIATES	2504104	4		740500	S	4.6	O3	577	300	GTR8			
2211F	HENRS. PROCESS CHEMICALS. INC.	4600125	1	405000			1.4		05	170	0000		$\mathcal{O}(\mathcal{N}_{\mathcal{F}})$	
2230P	POPENNY LARCOPE INC.	2405/268	1	405047	740345	r	2.6	41	03	140	(30)		70.50	
Z233P	HOPPMANN-LAFOOTE INC.	4600155	20	405000	740919	F:	2.4	13	16	402	GTRE		1490	
	HOFFMANN-L. HOCHE INC.	4600156	Section 2	405015.	740927	<b>F</b> -	2.5	.7.1	0.2	650	GTRE		arth i'r	
	HOFFPYANGLARCOFFE INC.	45/0157	33	405003	740915	E.	2.5	31	$()_{\infty}$	•	GTRB		165	
	HOFFMANN-LARCOHE INC.	4600158	37		740907		2.2	3t	02	720	ETRE		(x)E.	
22346F	FARMLAND DATE THE TYPE	2604169	1.		740727	U		03	65	300	GTRE		29(40)	
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# State of New Jersey

# DEPARTMENT OF ENVIRONMENTAL PROTECTION

# DIVISION OF WATER RESOURCES METRO BUREAU OF REGIONAL ENFORCEMENT

2 BABCOCK PLACE WEST ORANGE, NEW JERSEY 07052

GEORGE G. McCANN, P.E. DIRECTOR

DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

November 18, 1988

# CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Dennis Space
Senior Vice President and General Manager
P.O. Box 8
Foot of 13th Street
Carlstadt, NJ 07072

Re: Compliance Evaluation Inspection Arsnyco, Incorporated NJPDES No. NJ 0030970 Carlstadt/Bergen County

Dear Mr. Space:

A Compliance Evaluation Inspection of your facility was conducted by a representative of this Division on October 13, 1988. A copy of the completed inspection report form is enclosed for your information.

Your facility received a rating of "UNACCEPTABLE" due to the following deficiencies:

- 1. A review of the Discharge Monitoring Reports (DMR's) for the period March 1, 1988 to May 31, 1988 has revealed that the results for petroleum hydrocarbon concentration exceeded the effluent limitations set forth in Part III-L of NJPDES Permit No. NJ 0030970.
- 2. The facility is supplied with water by both a public water supply and an on-site well and as such may be required to obtain a Physical Connection Permit in accordance with the New Jersey Safe Drinking Water Act, N.J.A.C. 7:10-10.1 et seq. The requirements of

the application can be explained by Mr. James Montgomery of the Bureau of Safe Drinking Water (BSDW) who may be reached at (609) 292-5550.

- 3. The on-site well is not metered and may divert greater than 100,000 gpd. Facilities are required to obtain a Water Allocation Permit in accordance with N.J.A.C. 7:19-1 et seq. when the monthly average diversion of well water is greater than 100,000 gallons per day. Information regarding Water Allocation Permits may be obtained from Mr. Andrew Hildick-Smith of the Bureau of Water Allocation (BWA) who can be reached at (609) 292-2957.
- 4. The requirements of Sludge Quality Assurance Reporting must be complied with as specified by Part II-L1.C of the permit. An explanation of program requirements may be obtained from Mr. Tim Doutt of the Bureau of Pretreatment and Residuals (BPR) who can be reached at (609) 633-3823.

A Notice of Violation (NOV) was issued to Arsynco during this inspection which addressed the poor housekeeping in the areas of the compacter and brine cooling system. An acceptable response to the NOV was received by this office within the required time.

On October 21, 1988, Arsynco was issued an Administrative Order from NJDEP which addressed several violations including deficiency 1. above. A written report concerning specific details of remedial measures to be instituted, as well as an implementation timetable, for deficiencies 2., 3., and 4. must be submitted to this Department and USEPA, Permits Administration Branch within thirty (30) calendar days of the date of this correspondence.

You are advised that the New Jersey Water Pollution Control Act  $(N.J.S.A.\ 58:10A-1\ \underline{et}\ \underline{seq}.)$  provides for substantial monetary and criminal penalties in cases of permit violations.

Please direct all correspondence and inquiries to Kathleen Beyer, the Environmental Specialist responsible for this case, who can be reached at (201) 669-3900, or by letter through this Division.

Failure to fully comply with the above will result in the initiation of enforcement action by this Department. This shall in no way be construed, however, to indicate any exemption on your part from possible penalties for violations indicated by the Compliance Evaluation Inspection, as stated above.

Very truly yours,

Thomas B. Harrington
Supervisor, Compliance
Monitoring Unit
Metro Bureau of
Regional Enforcement

# E17:G25

c: Dr. Richard A. Baker, USEPA Mr. Paul Molinari, USEPA Mr. James Montgomery, BSDW Mr. Andrew Hildick-Smith, BWA Mr. Tim Doutt, BPR

# Enclosure

bc: Zaheer Hussain, Enforcement
 Robert Candido, Criminal Justice
 Central File



# State of New Jersey DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WATER RESOURCES CN 029 TRENTON, NEW JERSEY 08625

GEORGE G. McCANN, P.E.

DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

IN THE MATTER OF

ADMINISTRATIVE ORDER AND

ARSYNCO INCORPORATED

NOTICE OF CIVIL ADMINISTRATIVE

CARLSTADT/BERGEN COUNTY

PENALTY ASSESSMENT

This Administrative Order and Notice of Civil Administrative Penalty Assessment is issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (hereinafter "NJDEP" or "the Department") by N.J.S.A. 13:1D-1 et seq. and the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., and duly delegated to the Assistant Director or Bureau Chief of the Enforcement Element, Division of Water Resources, pursuant to N.J.S.A. 13:1B-4.

#### FINDINGS

- 1. Arsynco, Inc. (hereinafter "Arsynco"), owns and operates a facility for the manufacture of organic chemical intermediates at the Foot of 13th Street in Carlstadt, Bergen County; block 91, lot 1 on the tax map of Carlstadt (hereinafter "the facility").
- 2. It is unlawful for any person to discharge any pollutant except in conformity with a valid New Jersey Pollutant Discharge Elimination System (NJPDES) permit as required by the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-6.a.
- 3. On or about April 15, 1985, the Department issued to Arsynco a New Jersey Pollutant Discharge Elimination System Significant Indirect User permit (NJPDES-SIU) NJ0030970 (hereinafter "the permit") for the discharge of industrial process wastewater after pretreatment to the Rutherford, East Rutherford, Carlstadt Joint Meeting (RERCJM) Sewage Treatment Plant.

- 4. The discharge of pollutants in excess of permit effluent limitations and/or the failure to comply with permit conditions is a violation of NJPDES-SIU permit No. NJ0030970 and N.J.A.C. 7:14-1 et seq.
- 5. Arsynco's Discharge Monitoring Report for the reporting period December 1, 1987 to February 29, 1988 revealed that the permit limitations for Total Volatile Organics (TVO's) had been exceeded. The average TVO's reported value of 24.3 lbs/day for discharge 002 exceeded the 7.26 lbs/day permit limitation. The maximum TVO's reported value for the same discharge was 37.3 lbs/day, which exceeded the permit limitation of 33.7 lbs/day.
- 6. On or about January 18, 1988, the influent flow of the Rutherford, East Rutherford, Carlstadt Joint Meeting (RERCJM) system was redirected for treatment to the Bergen County Utilities Authority (BCUA) in Little Ferry.
- 7. The discharge of any pollutants which create a fire or explosion hazard in the Domestic Treatment Works is prohibited by NJPDES-SIU permit No. NJ0030970 as specified in Part II-L 2. C.(1) and N.J.A.C 7:14-13.3(a)1. Treatment Works includes intercepting sewers and sewage collection systems as defined by N.J.A.C. 7:14A-1.9.
- 8. On February 24, 1988, representatives of the Department inspected the Arsynco facility in response to a report to the NJDEP Environmental Hotline, of foul odors emanating from the sewer system. Mr. Dennis Space, Vice President and General Manager of Arsynco informed the Department that a problem with a volatile organic skimmer/scrubber pretreatment system had resulted in Arsynco discharging xylene and toluene, toxic pollutants as defined by N.J.A.C. 7:14A-1.9, into the sanitary sewer system.
- 9. On February 24, 1988, BCUA obtained samples of the wastewater discharge from Arsynco to the sanitary sewer. Analyses performed by a NJ State certified laboratory revealed that the concentrations of TVO's in the effluent were 334.19 mg/l at the discharge of the pretreatment basin and 218.58 mg/l at a manhole at the foot of 13th Street. The excessive concentrations of TVO's caused a Lower Explosion Limit (L.E.L.) of 51% from the manhole at the foot of 13th Street at the time of sample collection. The sewer line accessed by the manhole at the foot of 13th Street exclusively contains the process wastewater and the sanitary discharge from the Arsynco facility.
- 10. The discharge of a slug loading is prohibited by NJPDES-SIU permit No. NJ0030970 as specified in Part II-L 2. C.(4) and N.J.A.C 7:14-13.3(a)1. A slug loading is "any pollutant ... released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the Domestic Treatment Works", as defined by NJPDES-SIU permit NJ0030970 Part II-L 1.B. A L.E.L. of 51% and TVO's concentration of 334.19 mg/l indicates a slug loading and an explosion hazard.
- 11. On April 13, 1988, a Compliance Evaluation Inspection at Arsynco revealed that:
  - a.) The skimmer/scrubber pretreatment system had not been maintained properly during the months of November through February resulting in the fouling of the packing and demistor pad of the air stripping

column.

- b.) Arsynco had submitted inaccurate values for TVO's because of the inaccurate monitoring method for instantaneous maximum flow in violation of Part III-L, Page 1 of 1 of the facility's permit.
- 12. On May 17, 1988 Arsynco reported a permit limit violation for petroleum hydrocarbons for the month of March 1988. The maximum Petroleum Hydrocarbons reported value of 415 mg/l for discharge 002 exceeded the 150 mg/l permit limitation.
- 13. Based on the facts set forth in these FINDINGS, the Department has determined that Arsynco has violated the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., specifically N.J.S.A. 58:10A-6, and the regulations promulgated pursuant thereto, N.J.A.C. 7:14A-1 et seq., specifically N.J.A.C. 7:14A-1.2.

#### ORDER

# NOW, THEREFORE, IT IS ORDERED THAT:

- 14. Arsynco shall immediately take all necessary measures to comply with all conditions and effluent limitations of the permit. These measures shall include:
  - a.) Halt or reduce manufacturing activity in order to maintain compliance with the conditions of the permit.
  - b.) Take all necessary steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit, including but not limited to, additional types of monitoring, temporary repairs or other mitigating measures.
  - c.) Install a monitoring device to measure the degree of fire and explosion hazard at the last available point of the permittee's sewer line prior to connection to the publicly owned sewer system. This device must be capable of sounding an alarm at a level lower than that which would be a violation of BCUA's Rules and Regulations for a fire and explosion hazard. A permanent record of violations must be maintained in a log book at the facility and violations must be reported to appropriate personnel at BCUA.
  - d.) At all times, the treatment system must be maintained in good working order and operated as efficiently as possible. The maintenance program of all treatment and collection equipment must be performed at the frequency required to achieve compliance with the terms and conditions of the permit in accordance with N.J.A.C. 7:14A-2.5(a)5.
  - e.) The treatment system must be inspected on a daily basis to ensure that proper treatment efficiency is being maintained and to identify any system malfunctions. Arsynco shall maintain at the facility complete inspection records indicating dates of inspection, the inspector's name, conditions observed, and

maintenance/repair performed. A monthly report of the findings of the inspections and repairs performed must be submitted to NJDEP by the 10th day of the succeeding month until the facility is in compliance with the permit.

- 15. Arsynco shall, within 45 days of receipt to this order, prepare an engineer's report on the existing treatment system which at a minimum shall contain the following information:
  - a.) The effectiveness and capabilities of the treatment system to meet effluent quality and,
  - b.) necessary modifications to the treatment system and/or the process if required to meet compliance with the permit's limitations and conditions.

The report must be prepared by a qualified Licensed Professional Engineer and must be submitted to the address in paragraph 21.

- 16. Within 90 days of receipt of Division of Water Resources' approval of the recommendations of the Engineers Report, Arsynco shall implement the modifications in the manner and time period established by the Department.
- 17. Arsynco shall accurately monitor the instantaneous maximum flow within fifteen minutes of the collection of the grab samples for the analyses of Total Volatile Organics to properly calculate and report the Total Volatile Organics loading as required by Part III-L, Page 1 of 1 of the permit.
- 18. Arsynco shall locate the sample/measurement point for all permitted parameters, including flow, to the manhole at the foot of 13th Street (near the entrance gate of the facility.)
- 19. This Order is effective upon receipt.

# NOTICE OF CIVIL ADMINISTRATIVE PENALTY ASSESSMENT

- 20. Pursuant to N.J.S.A. 58:10A-10d and N.J.A.C. 7:14-8.1 <u>et seq.</u>, and based upon the above FINDINGS, NJDEP has determined that a civil administrative penalty should be assessed against Arsynco in the amount of \$79,000.00. NJDEP's rationale for this Civil Administrative Penalty is set forth in Appendix A which is attached hereto and incorporated herein.
- 21. Payment of the penalty is due when a final order is issued by the Commissioner subsequent to a hearing if any, or when this Notice of Civil Administrative Penalty Assessment becomes a final order (see following paragraph). Payment shall be made by certified or cashier's check payable to "Treasurer, States of New Jersey" and shall be submitted to:

Peter T. Lynch, Chief
Metro Bureau of Regional Enforcement
Division of Water Resources
2 Babcock Place
West Orange, New Jersey 07052

22. If no request for a hearing is received within twenty (20) calendar days from receipt of this Notice of Civil Administrative Penalty Assessment, it shall become a final order upon the twenty-first calendar day following its receipt by Arsynco, and the penalty shall be due and payable.

#### NOTICE OF RIGHT TO A HEARING

- 23. Arsynco is entitled to an administrative hearing. Any hearing request shall be delivered to the address referenced in paragraph 21 above within twenty (20) calendar days after receipt by Arsynco of this Administrative Order and Notice of Civil Administrative Penalty Assessment.
- 24. Arsynco shall, pursuant to N.J.A.C. 7:14-8.4(a) in its request for a hearing furnish NJDEP with the following:
  - a. The name, address and telephone number of Arsynco and its authorized representative;
  - Arsynco defenses to each of the findings of fact stated in short and plain terms;
  - c. an admission or denial of each of the findings of fact. If Arsynco is without knowledge or information sufficient to form a belief as to the truth of a finding, Arsynco shall so state and this shall have the effect of a denial. A denial shall fairly meet the substance of the findings denied. When Arsynco intends in good faith to deny only a part or a qualification of a finding, Arsynco shall specify so much of it as is true and material and deny only the remainder. Arsynco may not generally deny all of the findings but shall make all denials as specific denials of designated findings. For each finding Arsynco denies, Arsynco shall allege the fact or facts as Arsynco believes it or them to be;
  - d. information supporting the request and specific reference to/or copies of other written documents relied upon to support the request;
  - e. an estimate of the time required for the hearing (in days and/or hours); and,
  - f. a request, if necessary, for a barrier-free hearing location for physically disabled persons;

# GENERAL PROVISIONS

25. This Administrative Order and Notice of Civil Administrative Penalty Assessment is binding on Arsynco, its principals, directors, officers, agents, successors, assigns, any trustee in bankruptcy or other trustee, and any receiver appointed pursuant to a proceeding in law or equity.

- 26. Arsynco shall submit all documents required by this Administrative Order and Notice of Civil Administrative Penalty Assessment by certified mail, return receipt requested or by hand delivery to the address in paragraph 21 above.
- 27. Notice is given that pursuant to N.J.S.A. 58:10A-10d, NJDEP is authorized to assess a civil administrative penalty of not more than \$50,000 for each violation, and each day during which the violation continues shall constitute an additional, separate and distinct offense.
- 28. Notice is given that this Administrative Order and Notice of Civil Administrative Penalty Assessment is issued only for the violations identified in the Findings hereinabove and that violations of any statutes, rules or permits other than those herein cited may be cause for additional enforcement actions, either administrative or judicial, being instituted without further notice. By issuing this Administrative Order and Notice of Civil Administrative Penalty Assessment the Department does not waive its rights to initiate additional enforcement actions.
- 29. Notice is further given that pursuant to N.J.S.A. 58:10A-10e, any person who violates N.J.S.A. 58:10A-1 et seq., or an administrative order issued pursuant to N.J.S.A. 58:10A-10b, or who fails to pay the civil administrative penalty in full after it is due shall be subject to a civil penalty not to exceed \$50,000 per day of such violation, and each day's continuance of the violation shall constitute an additional, separate and distinct violation.
- 30. Notice is further given that pursuant to N.J.S.A. 58:10A-10f, any person who willfully or negligently violates this act shall, upon conviction, be guilty of a crime of the fourth degree and shall be punished by fine of not less than \$5,000 nor more than \$50,000 per day of violation, or by imprisonment for not more than one year or by both. Punishment for a second offense under this subsection shall be a fine of not less than \$10,000 nor more than \$100,000 per day of violation, or by imprisonment for not more than two years, or both. Any person who knowingly makes a false statement, representation, or certification in any application, record, or other document filed or required to be maintained under this act or who falsifies, tampers with or knowingly renders inaccurate, any monitoring device or method required to be maintained pursuant to this action shall, upon conviction, be subject to a fine of not more than \$20,000.00 or by imprisonment for not more than six months, or by both.

BY THE AUTHORITY OF
GEORGE G. McCANN, P.E.
DIRECTOR
DIVISION OF WATER RESOURCES
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DATE: October 18, 1988

James K. Hamilton

Acting Assistant Director

Enforcement Element

## Appendix A

#### CIVIL ADMINISTRATIVE PENALTY RATIONALE

Arsynco Incorporated P.O. Box 8 Foot of 13th Street Carlstadt, N.J. 07072

Re: Violations of NJPDES Permit No. NJ0030970

N.J.A.C. 7:14-8.5 Civil Administrative Penalty Determination

Except for those violations set forth in N.J.A.C. 7:14-8.6 through 8.11, the Department shall assess a civil administrative penalty for violations described in this section on the basis of the seriousness of the violation and the conduct of the violator at the mid-point of the ranges pursuant to 7:14-8.5(c) unless adjusted to 7:14-8.5(f) below.

1. April 13, 1988 - Failure to maintain and operate the treatment system in good working condition.

Seriousness factor: Pursuant to N.J.A.C. 7:14-8.5(d)3.i. Minor: Any violation not included in (d)1 or (d)2 above, (Major or Moderate Seriousness), or (d)3ii below.

Conduct factor: Pursuant to N.J.A.C. 7:14-8.5(e)2. Moderate shall include any unintentional but foreseeable act or omission by the violator.

Range for Minor Seriousness and Moderate Conduct: \$3,000-\$6,000 Penalty Assessed = \$4,500.00

2. December 1, 1987 to February 29, 1988 DMR - Average TVO violation. The permit limit is 7.26 lbs/day and the violation is 24.3 lbs/day.

Seriousness Factor: Pursuant to N.J.A.C. 7:14-8.5(d)1.ii.(1) Major: Any violation exceeding the effluent which is measured by concentration or mass for any discharge exceeding the effluent limitation set in a permit or administrative order by more than 50 percent for a hazardous pollutant.

Conduct Factor: Pursuant to N.J.A.C. 7:14-8.5(e)2. Moderate shall include any unintentional but foreseeable act or omission by the violator.

Range for Major Seriousness and Moderate Conduct: \$30,000-\$40,000.

3. December 1, 1987 to February 29, 1988 DMR - Maximum TVO violation. The permit limit is 33.7 lbs/day and the violation is 37.3 lbs/day.

Seriousness Factor: Pursuant to N.J.A.C. 7:14-8.5(d)3.ii.(1)

Minor: Any violation exceeding the effluent limitation which is measured by concentration or mass for any discharge exceeding the effluent limitation set forth in a permit or administrative order by up to 25 percent for a hazardous pollutant.

Conduct Factor: Pursuant to N.J.A.C. 7:14-8.5(e)2. Moderate conduct shall include any unintentional but foreseeable act or omission by the violator.

Range for Minor Seriousness and Moderate Conduct: \$3,000-\$6,000 Penalty assessed - \$4,500.00

4. February 24, 1988 - Discharge in violation of the additional conditions of their NJPDES permit Part II - L 2. C. (1) and (4) - Discharge of pollutants which create a fire or explosion hazard in the Domestic Treatment Works(DTW) and Discharge of any pollutants released at a flow rate and/or pollutant concentration which will cause interference with the DTW.

Seriousness Factor: Pursuant to N.J.A.C. 7:14-8.5(d)2.i. Moderate: Any violation which has caused substantial harm to human health or the environment.

Conduct Factor: Pursuant to N.J.A.C. 7:14-8.5(e)2. Moderate shall include any unintentional but foreseeable act or omission by the violator.

Range for Moderate Seriousness and Moderate Conduct: \$10,000-\$20,000 Penalty assessed = \$15,000.00

5. March 1988 Noncompliance Report - Maximum Petroleum Hydrocarbon violation. The permit limit is 150~mg/l and the violation is 418~mg/l.

Seriousness Factor: Pursuant to N.J.A.C. 7:14-8.5(d)1.ii.(2) Major: Any violation of an effluent limitation which is measured by concentration or mass for any discharge exceeding the effluent limitation set forth in a permit or administrative order by more than 100 percent for a non-hazardous pollutant.

Conduct Factor: Pursuant to N.J.A.C. 7:14-8.5(e)3. Minor shall include any other conduct not identified in e(1). or (2).

Range for Major Seriousness and Minor Conduct: \$15,000-\$25,000 Penalty assessed - \$20,000.00

1.	Discharge	Violation	-	Good working	or	der	\$4,500.00
2.	Discharge	Violation	-	Exceed average	ze	- TVO's	.\$35,000.00

- 3. Discharge Violation Exceed maximum TVO's.....\$4,500.00
- 4. Discharge Violation Additional conditions .....\$15,000.00 5. Discharge Violation Exceed maximum -Pet. Hydr...\$20,000.00





# State of New Jersey

# DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam Deputy Director

Hazardous Waste Operations

John J. Trela, Ph.D., Director 401 East State St. CN 028 Trenton, N.J. 08625 (609)633-1408

Lance R. Miller Deputy Director

Responsible Party Remedial Action

### MEMORANDUM

TO:

Jeff Sterling

Metro Bureau of Enforcement

n 7 JUL 1988

THROUGH:

Section Chief

Bureau of Complaance and Technical Services

FROM:

Robert P. Posey RFF

Quality Assurance/Quality Control Unit

SUBJECT:

NET Mid-Atlantic, Inc. Test Report # 88-1002;

Case-Arsynco, Inc.

#### INTRODUCTION

A quality assurance review was performed by Robert P. Posey on this tier I test report submitted by NET Mid-Atlantic, Inc. to BCTS on May 25, 1988; the report was not received by BCTS until July 5, 1988 due to delivery problems at NJDEP. Three soil samples and a trip blank were collected by Ruark Smith, BCTS and Jeff Sterling, MBE on May 5, 1988 and delivered to the lab that day. The lab considers the sample receipt date to be May 6, 1988 since all of the documentation was not complete until that day.

The soil samples were analyzed for purgeable organics with a mass spectral library search for non-target compounds. The trip blank was not analyzed after discussion between the lab and the QA/QC section.

#### RESULTS OF REVIEW

#### Τ. General Requirements

The test report is assembled in the proper format with all required information provided.

# II. Sample Holding Times

The samples were collected on May 5, 1988 and analyzed on May 13, 1988. The 14 day holding time limit was met.

#### III. Volatile Organics Analysis

#### A. GC/MS Tune Performance Check

The GC/MS tune performance data is acceptable. The mass calibration and ion abundance criteria were met for both tune checks.

# B. GC/MS Initial Calibration

The initial calibration data is acceptable. Performance criteria for the Calibration Check Compounds (CCC) and System Performance Check Compounds (SPCC) were met.

# C. GC/MS Continuing Calibration

The continuing calibration data is acceptable. Performance criteria for the CCC'S and SPCC's were met.

# D. Surrogate Spikes

The surrogate spike data is acceptable. Surrogate spiking was performed on all required samples, spikes and blanks. The recoveries were within the acceptable limits in all cases.

# E. Matrix Spikes

The matrix spike data is acceptable. The recovery and RPD for Toluene were outside the control limits for the matrix spikes. The sample that was spiked contained enough Toluene to interfere with the recovery of the spiked amount. The spiked sample was not from the job number for this case. No action is needed.

#### F. Blank

The method blank was found to contain 2-Butanone and acetone. 2-Butanone was detected at an estimated concentration of 7,000 ug/kg after the 125 fold scaling used to make a comparison to the samples. Acetone was detected at an estimated concentration of 475 ug/kg.

#### G. Samples

Some sample results were re-calculated to verify the results reported by the lab. Correct calculations were made by the analyst and confirmed by the QC supervisor.

The samples were extracted with methanol and diluted so the detection limits were raised substantially. This was necessary because of the large amount of contamination present in the samples. The 2-Butanone results for samples STE 018 and STE 019 are rejected due to possible laboratory contamination as suggested by the method blank results. No other problems have been found which would adversely affect data quality.

#### CONCLUSIONS

#### I. General Requirements

The test report is assembled in the proper format with all required information provided.

#### II. Sample Holding Times

Sample holding time criteria have been met.

#### III. Volatile Organics Analysis

The tune performance check data, the initial and continuing calibration data, the surrogate spike data and matrix spike data are acceptable. The recovery and RPD for the toluene matrix spike were outside the control limits but this is attributable to the large amount of toluene already present in the sample that was spiked. Acetone was detected in the method blank but not in any of the samples. 2-Butanone was detected in samples STE 018 and STE 019 and in the associated method blank. The 2-Butanone results for samples STE 018 and STE 019 are rejected due to possible laboratory contamination. All other results may be used for your intended purpose. A table listing the usable sample results is attached.

#### IV. Payment Recommendation

I recommend that NET Mid-Atlantic, Inc. be paid the full invoice amount for this analysis in accordance with the terms and conditions of Laboratory Services Contract X-195.

#### c. Ruark Smith



# State of Rem Jersen

# DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF HAZARDOUS WASTE MANAGEMENT

John J. Trela, Ph.D., Acting Director 2 Babcock Place West Orange, N.J. 07052 201 - 669 - 3960

#### MEMORANDUM

TO:

File 02-05-12

FROM:

Jeffrey A. Sterling, Environmental Engineer

THRU:

Yacoub E. Yacoub, Section Chief

RE:

Analytical Results for Sample STE017, STE018, STE019.

Sample Location - Arsynco, Inc., Carlstadt, NJ

DATE:

7/11/88

On 5/5/88 three (3) soil samples were taken from within the solvent tank farm at the subject facility. The samples were taken from areas within the tank farm which revealed visual evidence of soil contamination from discharges. The retrieval of the samples was necessary to verify that the Spill Act had, indeed, been violated by Arsynco, Inc. On 11/25/88, the subject company was cited for violating NJSA 58:10-23.11(c) and NJSA 58:10-23.11(e).

The analytical report (attached) reveals that the soil samples had significant amounts of toluene and ethylbenzene present. The lab results were reviewed by the NJDEP/BCTS and the results of this internal review by the Department is discussed in the attached memo, dated 7/7/88, from Robert P. Posey.

The results presented in the analytical report confirm that the Spill Act has been violated by Arsynco, Inc. Appropriate action will be taken by this office to address the aforementioned violation of the Spill Act.

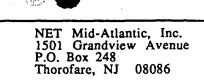
og: Arnold Schiff

Ernest Kuhlwein

ATTACHMENT \_\_\_\_



# NATIONAL ENVIRONMENTAL TESTING, INC.



Tel: (609) 848-3939 Fax: (609) 848-9195

# ANALYTICAL REPORT

ANALYTICAL DATA REPORT PACKAGE FOR THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION TRENTON, NEW JERSEY 08625

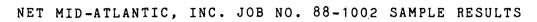
FIELD SAMPLE #	LABORATORY SAMPLE #	SAMPLE LOCATION	DATE & TIME OF COLLECTION
STE 017	6857	Foot of	_5-5-88 12:20
STE 018	6858	13th Street	5-5-88 14:00
STE 019	6859	Carlstodt, NJ	5-5-88 6:00

LABORATORY NAME: <u>NET Mid-Atlantic</u>, Inc.

CERTIFICATION #: \_\_\_\_\_08153

SUPERVISOR/MANAGER SIGNATURE:

PRINTED NAME: Rodney T. Miller



!	CONCENT	RATION (mg/kg	and ppm) ;
TARGETED COMPOUNDS	STE 017	STE 018	STE 019
TOLUENE	2,000	17,000	1,300
ETHYLBENZENE	3,400	7,100	1,800
TOTAL	5,400	24,100	3,100
NON-TARGETED COMPOUNDS	ESTIMATED (mg/kg and ppm)		
XYLENE ISOMER	17,000	26,000	6,700
XYLENE ISOMER	11,000	11,000	3,800
TOTAL	   28,000 	37,000	10,500
TARGETED & NON-TARGETED COMPOUNDS	ESTIMA CONCENTA	ATED RATION (mg/kg	and ppm)
TOTAL	33,400	¦ ¦ 61,100	13,600



Harryton

#### State of New Jersey

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION

# DIVISION OF WATER RESOURCES METRO BUREAU OF REGIONAL ENFORCEMENT

2 BABCOCK PLACE
WEST ORANGE, NEW JERSEY 07052

GEORGE G. McCANN, P.E. DIRECTOR

DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

May 6, 1988

Mr. Dennis Space
Senior Vice President and General Manager
Arsynco, Incorporated
P.O. Box 8
Foot of 13th Street
Carlstadt, NJ 07072

Re: Compliance Evaluation Inspection Arsynco, Incorporated NJPDES No. NJ0030970 Carlstadt/Bergen County

Dear Mr. Space:

A Compliance Evaluation Inspection of your facility was conducted by a representative of this Division on April 13, 1988. A copy of the completed inspection report form is enclosed for your information.

Your facility received a rating of "UNACCEPTABLE" due to the following deficiencies:

- The facility's Discharge Monitoring Report (DMR) for the period December 1, 1987 to February 29, 1988 has revealed that the maximum and average effluent limitations for Total Volatile Organics (TVO's) were exceeded at DSN 002.
- 2. The TVO's as reported on the DMR's are being calculated using improper flow rates in violation of Part III-L, Page 1 of 1 of the facility's NJPDES permit. TVO concentrations must be calculated using the instantaneous flow rate recorded when the required monthly TVO grab sample is obtained.
- 3. Inspection and maintenance of the treatment system for DSN 002 is not being performed in violation of N.J.A.C. 7:14-2.5(A)5, which requires that "The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment works, facilities, and systems of treatment and control

(and related appurtenances) for collection and treatment which are installed or used by the permittee for pollution control and abatement to achieve compliance with the terms and conditions of the permit."

- 4. Drums containing various substances are improperly stored and labeled throughout the site.
- 5. The facility's D.P.C.C./D.C.R. plan is due for revision. For questions regarding this plan, contact Mr. Suyra Shah of the Bureau of Industrial Waste Management at (609) 292-0407.
- 6. A Notice of Violation was issued to Arsynco during this inspection which addressed poor housekeeping throughtout the site which has resulted in the discharge of pollutants to the surface waters of the State via storm water runoff.

Since the deficiencies cited are presently, or could, in the future, adversely affect effluent quality, you are DIRECTED to institute measures to correct the deficencies. The written report concerning specific details of remedial measures to be instituted, as well as an implementation timetable, must be submitted to this Department and USEPA, Permits Administrative Branch, within thirty (30) calendar days of the date of this correspondence.

Both the New Jersey Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 466 et seq.) provide for substantial monetary and criminal penalties in cases of permit violations.

Please direct all correspondence and inquiries to Kathleen Beyer, the Environmental Specialist responsible for this case, who can be reached at (201) 669-3900 or by letter through this Division.

Failure to fully comply with the above will result in the initiation of enforcement action by this Department and/or the United States Environmental Protection Agency. This shall in no way be construed, however, to indicate any exemption on your part from possible penalties for violations indicated by the Compliance Evaluation Inspection, as stated above.

Very truly yours,
homes B. Hur

Thomas B. Harrington
Supervisor, Compliance
Monitoring Unit

Monitoring Unit Metro Bureau of

Regional Enforcement



# PANEL FOR THE STREET OF STREET



IN THE MATTER OF :

ADMINISTRATIVE ORDER AND

ARSYNCO INCORPORATED FOOT OF 13TH STREET

NOTICE OF CIVIL ADMINISTRATIVE

CARLSTADT, N.J. 07072 LOG #A880363 MRA, CDS

PENALTY ASSESSMENT

This CRDER and NOTICE are issued pursuant to the authority vested in the Cormissioner of the New Jersey Department of Environmental Protection (the "Department") by N.J.S.A. 13:10-1 et seq., and the Air Pollution Control Act, N.J.S.A. 26:2C-1 et seq. (the "Act"), and duly delegated to the Assistant Director for Enforcement of the Division of Environmental Quality pursuant to N.J.S.A. 13:1B-4.

#### FINDINGS

1. As the result of an investigation conducted on March 18, 1988, the Department has determined that at your facility located at the Foot of 13th Street, Boro of Carstadt, Lot(s) IE, Block(s) 146, County of Bergen, State of New Jersey, (ID #00098) you constructed, installed, or altered and operated the following equipment without obtaining the required Permit(s) to Construct, Install or Alter Control Apparatus or Equipment and Certificate(s) to Operate Control Apparatus or Equipment, in violation of N.J.A.C. 7:27-8.3(a)&(b):

Croll Reynolds packed tower air stripper.

#### ORDER

- 2. NOW, THEREFORE, IT IS HEREBY ORDERED THAT on or before May 10, 1988, you obtain the required Permit(s) and Certificate(s) for the equipment listed in Paragraph I above. If the required Permit(s) and Certificate(s) are not obtained by the above date, you must cease installation/operation of such equipment until the Permit(s) and Certificate(s) are obtained. Such Permit(s) and Certificate(s) may be obtained by submitting application(s) VEM-003 and VEM-004 to the Bureau of Air Pollution Control.
- 3. Based upon the above FIMDINGS, and a review of the entire matter, the Department hereby assesses a Civil Administrative Penalty against you in the amount of \$400.00. Payment must be submitted to the Department within twenty (20) calendar days of receipt of this Order and Notice unless you request a hearing in accordance with the provisions of Paragraph 4 below. Payment must be made to the Department at the address listed in Paragraph B of Attachment I.



- 4. Pursuant to N.J.S.A. 26:20-14.1 you are entitled to a hearing if aggrieved by this Order and Notice. Application for such a hearing must be received by the Department within twenty (20) calendar days from receipt of this Order and Notice. In applying for such hearing, you must furnish the Department with the information listed in Paragraph A of Attachment I. If no request for a hearing is received within twenty (20) calendar days, this Notice shall become a final Order and the Penalty will then become due and payable. A hearing request does not stay the terms or effect of this Order.
- 5. The provisions of this Order and Notice shall be binding on you, your principals, agents, employees, successors, assigns, tenants and any trustee in bankruptcy or receiver appointed pursuant to a proceeding in law or equity.
- 6. No obligations imposed by this Order and Notice, with the exception of Paragraph 3, are intended to constitute a debt, damage claim, penalty or other civil action which should be limited or discharged in a bankruptcy proceeding. All obligations imposed by this Order shall constitute continuing regulatory obligations imposed pursuant to the police powers of the State of New Jersey, intended to protect the public health, safety and welfare.
- 7. NOTICE IS GIVEN, that pursuant to N.J.S.A. 26:20-19(b) and N.J.S.A. 26:20-19(d), any person who violates the provisions of the Act, or any code, rule regulation or order promulgated or issued pursuant thereto, or who fails to pay a civil administrative penalty in full, shall be liable to a penalty of up to \$10,000 for the first offense, \$25,000 for the second offense, and \$50,000 for the third and each subsequent offense.

Dated: April 20, 1988

Anthony J. McMahon, Assistant Director Environmental Enforcement

CERTIFIED MAIL

127442

#### CLOSURE PLAN

ARSYNCO, INC. CARLSTADT, NEW JERSEY

EPA ID. NO. NJD 044688935 CP-86-23

## Prepared for:

Arsynco, Inc.
P.O. Box 8
13th Street
Carlstadt, New Jersey 07072

#### Prepared by:

The Earth Technology Corporation 500 Elizabeth Avenue Somerset, New Jersey 08873

Revised April 1988

ATTACHMENT F

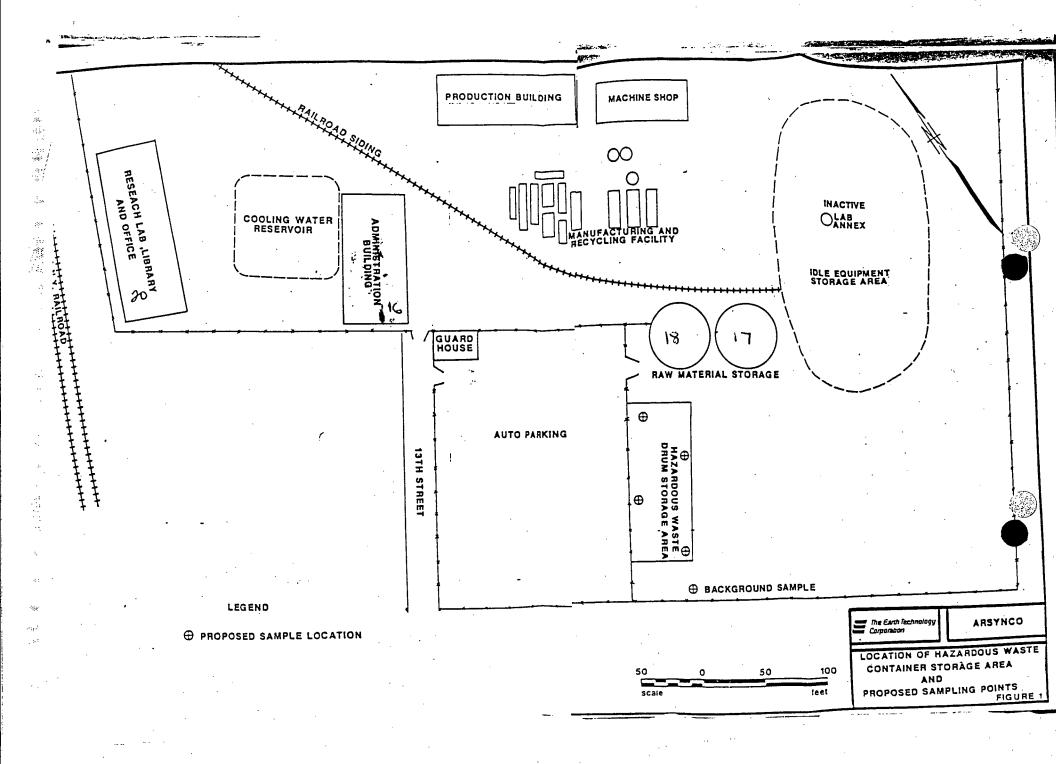
#### 1.0 CLOSURE PLAN - DRUM STORAGE AREA

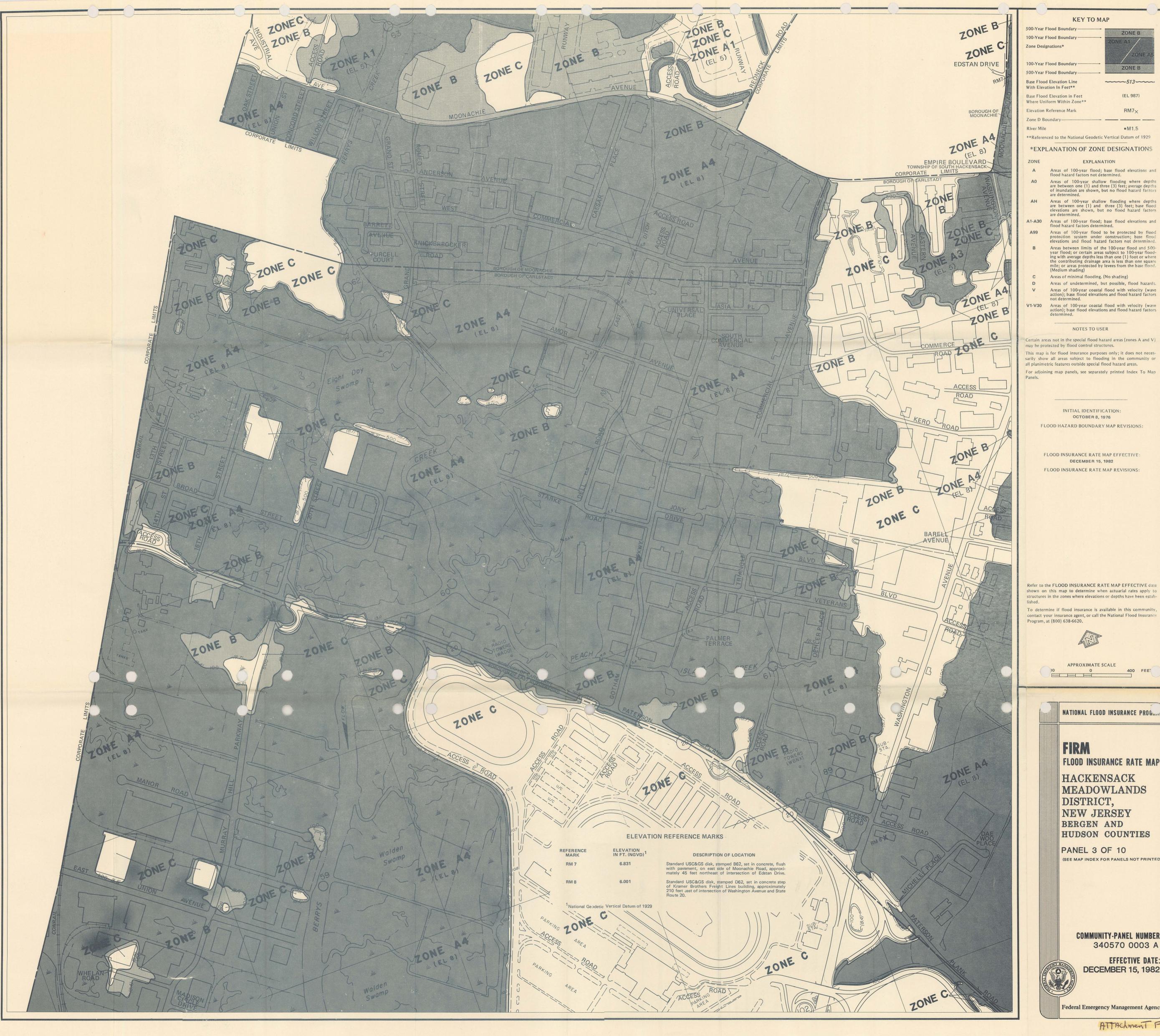
This closure plan has been developed in accordance with N.J.A.C. 9:26-9.8 requiring the compilation of a closure plan addressing the facility hazardous waste Drum Storage Area. The existing waste storage unit consists of a drum storage area which has interim status to store 25,000 gallons of liquid hazardous wastes in containers. The location of this unit is shown in Figure 1.

This plan minimizes or eliminates threats to human health and the environment. It requires that sampling be conducted and samples analyzed to determine if contamination is present at the storage unit. Any contaminated soil identified will be classified, removed, and disposed as a hazardous waste at an EPA-approved disposal facility. In the event that a spill reaches ground water, the contaminated ground water will be handled in accordance with an engineering design to be determined after delineation of contamination.

A copy of this closure plan will be kept on-file at the Arsynco facility until closure of the storage area has been accepted by NJDEP. In accordance with N.J.A.C. 9:26-9.8(g), Arsynco is notifying the Department of its intent to close the existing drum storage area within 180 days.

A certification that the storage area has been closed in accordance with the NJDEP approved closure plan will be made by both Arsynco and an independent professional engineer, registered in the State of New Jersey. The certification will be submitted to NJDEP, as required, along with copies of the waste manifest.





**KEY TO MAP** 

ZONE B

ZONE B

----513----

•M1.5

\*\*Referenced to the National Geodetic Vertical Datum of 1929

EXPLANATION

Areas of 100-year flood; base flood elevations and flood hazard factors not determined.

Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.

Areas of 100-year flood; base flood elevations and flood hazard factors determined. Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.

Areas between limits of the 100-year flood and 500year flood; or certain areas subject to 100-year flood-ing with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood.

Areas of undetermined, but possible, flood hazards. Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors

Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

sarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas. For adjoining map panels, see separately printed Index To Map

> INITIAL IDENTIFICATION: OCTOBER 8, 1976

FLOOD HAZARD BOUNDARY MAP REVISIONS:

FLOOD INSURANCE RATE MAP EFFECTIVE: **DECEMBER 15, 1982** 

FLOOD INSURANCE RATE MAP REVISIONS:

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been estab-

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance



APPROXIMATE SCALE

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

HACKENSACK MEADOWLANDS DISTRICT, **NEW JERSEY** BERGEN AND

PANEL 3 OF 10 (SEE MAP INDEX FOR PANELS NOT PRINTED)

> **COMMUNITY-PANEL NUMBER** 340570 0003 A

EFFECTIVE DATE: **DECEMBER 15, 1982** 

Federal Emergency Management Agency

ATTACKMENT F

please note that although Arsynco, Inc. is closing the existing drum storage area, it will continue to operate as a hazardous waste generator after closure. After the closure plan is approved by NJDEP, a new pad will be built and used to accumulate waste on a less than 90 day basis. The closure activities proposed herein are being taken to comply with the Interim Status requirements of NJDEP.

#### 2.0 DRUM STORAGE AREA

The drum storage area is designated for storage of solvents waiting to be reclaimed and residues generated from the recycling and distillation of solvents. The unrecoverable materials, as described by Arsynco, Inc., consist of the residues. The container storage area is surrounded by an 8 foot high cyclone fence and covers approximately 7500 square feet. This area accommodates a maximum inventory of 454 fifty-five gallon drums.

The drum storage area will be closed in accordance with the procedures outlined in Subsection 2.1. Closure of this unit will constitute final closure under this plan.

#### 2.1 CLOSURE OF THE EXISTING DRUM STORAGE AREA

The drummed hazardous wastes remaining in the container storage area at the time of closure will be properly manifested and sent to an EPA-approved facility for off-site disposal. Less than 25 drums are expected to be sent for off-site disposal.

The sampling and analytical program outlined in Subsection 2.1.1 will be implemented to determine the extent of soil contamination in the vicinity of the storage area. Soil displaying contaminant concentrations in excess of NJDEP-acceptable levels will be excavated and disposed off-site as either an industrial or a hazardous waste (depending upon its classification by NJDEP). The excavation will be backfilled with clean fill. All equipment used during the closure will be steam cleaned and the rinsate routed to the facility waste water treatment system. All protective gear which can not be suitably decontaminated will be drummed and disposed of properly.

#### 2.1.1 Sampling and Analytical Program

#### Sampling Locations and Sampling Procedures

The drum storage area is surrounded on all sides by fill and natural soils. A minimum of four soil samples will be collected from the storage area and one background sample will be taken at the approximate location shown in Figure 1. Background samples will be used to determine the characteristics of the fill in the area. Obviously stained areas adjacent to the storage area shall be sampled independently of and in addition to the designated areas. Discrete samples will be taken from each of the locations to a depth of six inches after any surface gravel has been removed. A portion of each sample will be retained in the event that the NJDEP requests split samples. The depth of sampling has been based principally on the nature of the wastes stored (solvents), and the potential of its migration in the soil. It is felt that the contamination, if present, will be at the highest concentration just below the surface. It would only be necessary to sample soil from greater depths if contamination is found in this zone above acceptable levels.

During sampling, an HNu photoionization detector will be utilized to screen the samples. This will provide a preliminary assessment of the volatility of the constituents in the soil. If volatiles are detected by the HNu, samples will be continuously obtained and screened with the HNu, until the volatile level falls below the detection limit of the instrument. At that point a second sample will be obtained from the borehole and submitted for laboratory analysis.

As it is anticipated that all sampling should be completed during one sample event, one duplicate sample will be selected for analysis. Assuming the same time frame, one field and one trip blank will be utilized to maintain sample quality assurance. The water used for the blanks will originate from the laboratory conducting the analyses and will be analyte-free. The blanks will be analyzed for the same constituents as the soil samples.

The sampling will be performed in accordance with the procedures and methods given in Attachment 1. The recordkeeping procedures outlined in Attachment 2 will be strictly followed during the sampling program.

#### Analytical Program

Since volatile organics are stored in the drum area, the soil samples will be analyzed for these materials. The analyses will be conducted by Accutest Laboratories, of Dayton, New Jersey, which is a NJDEP certified laboratory. The analyses will be conducted in accordance with the procedures described in Method 8240, in USEPA publication SW-846, "Test Methods for Evaluating Solid Waste, Third Edition" (see Attachment 3 for details). This analytical method includes xylene. A separate analysis for methanol would be added. The analytical results will be presented in the USEPA Contract Laboratory Program

(NJDEP Tier I) format. These results will be compared with an established site background value and the NJDEP recommended guidelines.

# 2.1.2 Schedule for Closure of the Drum Storage Area

Closure of the drum storage area will be initiated upon approval of the closure plan by NJDEP. Closure of the storage area will be certified by an independent professional engineer, registered in the State of New Jersey.

The closure schedule is shown on Table 1.

Following closure of the storage area, Arsynco will operate a to-be-built drum storage pad in accordance with NJDEP generator requirements; the drums will not be allowed to accumulate for periods exceeding 90 days.

#### 2.1.3 Closure Cost Estimate for the Container Storage Area

The cost associated with the closure activities detailed in the previous subsections is estimated at \$50,545.00. This closure is based upon prices obtained in March 1988. In-house labor will be used to carry out most of the activities covered under the closure plan.

A breakdown of the cost estimate is provided in Table 2.

# TABLE 1 SCHEDULE FOR FINAL CLOSURE

				Days		
	0	30	60	90	120	180
Approval of Plan	· X					
Removal of all Drums		<del></del>				
Soil Sampling <sup>†</sup> and Analysis	, 5	—				
Remedial Investigation*						
Removal of Contaminated Soil		•			<del></del>	
Verification Sampling <sup>+</sup>						
Completion of Closure and Certification					, h	

- \* To be conducted if initial sampling identifies contaminated soil.
- + NJDEP will be notified two weeks prior to initiation of sampling activities at the following address:

Bureau of Hazardous Waste Management Division of Hazardous Waste Engineering 401 E. State Street CN 028 Trenton, NJ 08625 (609) 292-9880 Let's protect our earth

Sho twell

# State of New Jersey

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION

**DIVISION OF HAZARDOUS WASTE MANAGEMENT** 

John J. Trela, Ph.D., Director 401 East State St. CN 028 Trenton, N.J. 08625 609 - 633 - 1408

2 i DEC 1987

#### MEMORANDUM

TO:

David C. Mack, Administrator

Spill Compensation Fund

THROUGH:

Ronald T. Corcory, Assistant Pirector

Hazardous Waste Enforcement Elkement

FROM:

Karl J. Delaney, Chief

Bureau of Compliance & Technical Services

SUBJECT:

Arsynco, Inc.

SFA #240, 240A

This Bureau's Responsible Party Investigations Unit has prepared the attached Responsible Party Investigative Summary for the subject case. In this investigation no responsible party has been identified. Based upon the information available it is our recommendation that this case be closed.

Should you have any questions in this matter, do not hesitate to contact Bruce Venner or Doug Stuart at 633-0700.

Attachment

jmh

c. Dave Shotwell, BFO
John Carnevale, Spill Fund
Bruce Venner, BCTS
Doug Stuart, RPIU

#### RESPONSIBLE PARTY INVESTIGATIVE SUMMARY

Arsynco, Inc. Carlstadt, New Jersey

SFA #240, 240A

#### Case Summary:

During the 1985 Phase II Dioxin Site Investigation Program, Arsynco, Inc., 13th Street, Carlstadt, NJ, was one of twenty three sites sampled to determine dioxin contamination. The final report for that site investigation (attachment #1) confirms that the subject sampling did not reveal the presence of dioxin contamination. Accordingly, no responsible party can be associated with the expenditure of Spill Fund monies utilized at this site.

Contractor:

E.C. Jordan Co. Portland, Maine

Contacts:

Anne DeCicco, Technical Coordinator

NJDEP

401 E. State St., 6th Floor

Trenton, NJ (609) 984-3068

Mike Schuit NJDEP, ORS 401 E. State St. Trenton, NJ (609) 292-2906

Susan Gall NJDEP, Community Relations 401 E. State St. Trenton, NJ (609) 633-1370

#### Location of Relevant Files:

6th Floor Central Files 401 E. State St. Trenton, NJ

#### Financial Information:

Analysis of Expenditures (attachment #2) Total site costs \$14,402.55

#### Conclusion:

Due to no hazardous substance identification, a Negative Declaration for a Responsible Party is made. It should be noted that the Authorization 240 and 240A used for this site is also related to other Phase II Dioxin sites.

No breakdown per PAC is possible since PACs were not used during the initial sampling phases for all subject sites.

#### RPIU Investigation Conducted By:

Doug Stuart, Sr. Environmental Specialist NJDEP, BC&TS
401 E. State St., 5th Floor
Trenton, NJ
(609) 633-0708

#### Attachments

- Excerpt from Phase II Dioxin Site Investigation Final Report for Arsynco, Inc., Carlstadt, NJ, 12/85
- 2. Analysis of Expenditures, Bureau of Financial and Support Services, 10/31/87

ID NO. NJD044688935 DATE 12/3/87 -
NAME OF FACILITY Argues, INC.
LOCATION OF FACILITY Foot of 13th St, Carlstadt, NJ 07072
NAME OF OPERATOR Wesley Benny #
You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C.
7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A.
58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed.
These violation(s) have been recorded as part of the permanent enforcement history of your facility.
failing to permit the Department from taking sample at the faility during the course of an impection

Remedial action to correct these violations must be initiated immediately and be completed by

\_. Within fifteen (15) days of receipt of this Notice of Violation, you shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures you have taken to attain compliance. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.

> Investigator, Division of Waste Magagement Department of Environmental Projection

ATTACHMENT 1

# 374

#### NOTICE OF VIOLATION

IDNO. NTD044688935 DATE 11/25/87
NAME OF FACILITY Arsynico INC.
LOCATION OF FACILITY Foot of 13th Street, Carlotalt, NJ 07072
NAME OF OPERATOR Wescey Bennett
You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A. 58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.
DESCRIPTION OF VIOLATION failing to inspect heralow waste storage
ones deily, NJAC 7:36-93(F)6 NJAC 7:36-9.4(F)6 inspection log does not milede the TIME of the inspector NJAC 7:36-9.4(e)1ici failing to conspicuously place "No Snevking" again near the ordient tank farm storage NJAC 7:26-7.4(a)4ici failing to promise the NJ haule's registration # on manifest MI-1184475 (10/20/8)
Remedial action to correct these violations must be initiated immediately and be completed by
12/10/87. Within fifteen (15) days of receipt of this Notice of Violation, you
shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures
you have taken to attain compliance. The issuance of this document serves as notice to you that a
violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initi-
ating further administrative or legal action, or from assessing penalties, with respect to this or other
violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.

Investigator, Division of Waste Management Department of Environmental Protection

# Form HWM

Place, West Orange NJ 07072-07052

NOTICE OF VIOLATION

D NO.	NJD 044688935	DATE 12/8/87	12/7/8
	$\Lambda$		

NAME OF FACILITY HOSUNCE FUC

LOCATION OF FACILITY Foot of 13th St Carlstall, MJ 07072

NAME OF OPERATOR Wesley Bennett

You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A. 58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.

DESCRIPTION	OF VIOLAT	ION NJAC	7:26-	- 9.8(e)	wadequate	· · · · · · · · · · · · · · · · · · ·
cloude	Alan	nantamel	1	Recipite	<del>×</del>	
	75-56			0		
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Remedial action to correct these violations must be initiated immediately and be completed by . Within fifteen (15) days of receipt of this Notice of Violation, you shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures you have taken to attain compliance. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.

\* closur plan does not aldress the tank them farm where waste solvents week to be stored Investigator, Division of Maste Department of Environmental in the past

Investigator, Division of Maste Management Department of Environmental Protection

# DIVISION OF HAZARDOUS WASTE MANAGEMENT Stb. FL. 401 E. State St., Trenton, N.J. 08625

2 Babcock Pl, West Orange, NJ 07052 NOTICE OF VIOLATION

ID NO. NJD044688935	DATE
NAME OF FACILITY Arsynco, Inc	
LOCATION OF FACILITY FOIT of 13th SA	Constact NJ 07072
NAME OF OPERATOR WESLEY Bennett	•

You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A. 58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.

DESCRIPTION OF VIOLATION NJAC 7:26-9.4(b)2c Vaste analysis alon Decls parameters for which each waste steam will be analyzed to NJAC 7:26-9.4(g) 1-6 no personnel Training in hazardons wante management procedure, : NJAC 7:26-9.4(g) & no semi-annual Drills conducted --- : NJAC 7:26-9.7(g) contingency plan back does not describe the LOCATION of a PHYSICAL DESCRIPTION of each amergency regularment, NJAC 7:26-9.8(e) 2 closure plan does not have

Remedial action to correct these violations must be initiated immediately and be completed by

12/16/87

. Within fifteen (15) days of receipt of this Notice of Violation, you shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures you have taken to attain compliance. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.

× dresit address "unknoon waste streams".

Investigator, Division of Waste Management
Department of Environmental Protection

7 Frey A. Sterling 201-669-3960

## NOTICE OF VIOLATION

ID NO. NJD 044688935 DATE 11/25/87
NAME OF FACILITY Arsynco, TNC
LOCATION OF FACILITY FOOT of 13 ST, Carlstadt, NJ 07072
NAME OF OPERATOR Wesley Bennett
· · · · · · · · · · · · · · · · · · ·
You are hereby NOTIFIED that during my inspection of your facility on the above date, the following-
violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C.
7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A.
58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed.
These violation(s) have been recorded as part of the permanent enforcement history of your facility.
DESCRIPTION OF VIOLATION an estimate of the maximum inventory of
$\mathcal{I}$
waster in storage , NJAC 7:26 - 9.4 (d) 2 storing harand
water in bacing containers, NJAC 7:26-9.4(d) 4i storing
horndon wastes in container that are not securely closed
NTAC7:28-9.4(d)3 storing hazardon wastes in containers
made of incompetible materials "NJAC7: 26- 9.41 d/40 stone
herachen waste in unlabeled containers, NJAC 7:26-94
Remedial action to correct these violations must be initiated immediately and be completed by
12/10/87 . Within fifteen (15) days of receipt of this Notice of Violation, you
shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures
you have taken to attain compliance. The issuance of this document serves as notice to you that a
violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initi-
ating further administrative or legal action, or from assessing penalties, with respect to this or other
violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.
, in very comoded containers
drum were completely eater  After Investigator, Division of Waste Management Department of Environmental Protection
Investigator, Division of Waste Management  Department of Environmental Protection

4 9 4

#### **NOTICE OF VIOLATION**

IDNO. NJD 044688935 DATE 11/25/87
NAME OF FACILITY ALLEGE TAC.
LOCATION OF FACILITY Foot of 13th ST, Carlstall, NJ 07072
LOCATION OF FACILITY FOOT 97 73 31 CONSTANT, 19 3 0 70 75
NAME OF OPERATOR Wesley Bennett
You are hereby NOTIFIED that during my inspection of your facility on the above date, the following
violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C.
7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A.
58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed.
These violation(s) have been recorded as part of the permanent enforcement history of your facility.
DESCRIPTION OF VIOLATION NJSA \$ 58:10-23.11 (c) being responsible
for the discharge of herardons substance (5) in the solvent tank form (ground) and from melanie parts
solvent tout form (ground) and from meline parts
onto the ground outside of the tank form area.
NJSA 58: 10-23.11(e) failure to notify the Departm
about the discharges abovementioned
N-JSA - 58-10-73-11-16
Remedial action to correct these violations must be initiated immediately and be completed by
Within fifteen (15) days of receipt of this Notice of Violation, you
shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures
you have taken to attain compliance. The issuance of this document serves as notice to you that a
violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initi-
ating further administrative or legal action, or from assessing penalties, with respect to this or other
violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.
e de tart met a.
charge involve, at least,  Investigator, Division of Waste Management  Denominant of Environmental Protection
Department of Environmental Protection

03-02-12

## **INSPECTION REPORT**

REPORT PREPARED FOR:	
Generator Generator	
☐ Transporter	
A HWM (TSD) Facility  Si Land Bon Facility	FACILITY INFORMATION
Name:	ARSYNCO, INC.
	FOOT OF 13th ST
	CARLSTADT, NJ 07072
· Lot:	
County:	Ber gen
Phone:	201-933-2323
EPA ID#:	NJD144688935
Date of Inspection:	11/25/87 \$ 12/3/87
Charte on EDA Pours and	PARTICIPATING PERSONNEL  JEFFREY STERLING
State or EPA Personnel:	HENOLD SCHIFF (12/3/87)
Facility Personnel:	WESLEY BENNETT
r demity refacilities.	Manager, Regulatory Offairs
. Report Prepared by Name:	Jeffrey A Sterling
Region:	Metre politon
Telephone #:	201-669-3960
Reviewed by:	
Date of Review:	

11/2487 PACILITY NAME: ATSILICO, INC.
The cook ADDRESS: Foot of 13th ST.  Carlstant NT 07072
504 (3) (4)
TIME IN: 1000 hr ) 11/3/87 COUNTY: Bergen  TIME OUT: 1200 hr S EPA ID: NJD 044 688935
TIME OUT: 1200 fr 5 EPA ID: NJD 044 688 935
DATE OF INSPECTION: 11/25/87 \$ 12/3/87
PHOTOS TAKEN YES NO
If yes, how many?
SAMPLE TAKEN
MANIFESTS REVIEWED  YES
Number of manifests in compliance
Number of manifests not in compliance
List manifest document numbers of those manifests not in compliance.
MI-1184475 (10/20/87) no NJ hanlers registrates

#### FACILITY DESCRIPTION AND OPERATIONS

A RCRA inspection was undusted at Avsynco Ivc.
(NJD044688935) on 11/25/87 and 12/3/87. Mr. Arnold Schill
NODER, accompained the impector on 12/3/87. On both Days the
facility was represented by Nov. Wesley Bennett, many
of regulatory applains. This houlily is located in Carlotalt
in 13th street.
The Bennett indicated that the plant has been in
exister since at least 1907 and that prior to 1969 it
was owned by diffherent companies such as Frie Brettiers"
and Commercial Solvents." Arsynco has sun this plant suce 1969.
The Roulity occupies 12.9 acres. Ten (10) acres are usable and
the rest is marshlond Pffreximitily 65 people work at
This plant and it operates on three (3) shifts.
Arsynce is a hotch chemical warmfocturer of
various spicialty chemicals. The chemicals (compounds) that
sempounds in it are used by other manufacturers to create
sempounds which are used by other munifortimes to creat
a final product. Approximately Seventy-Five (75%) y
the materal munifoldment on set is used in the
pharmocentical industry, according to Mr Bounts.
The nest of the chemicals compounds make at this Recellity
are used by the defense industry (ag to make rocket
instating) the automobile indistrict etc.
The nampacturing processes was a lot of solumnts

#### FACILITY DESCRIPTION AND OPERATIONS

Solvents are used as chamical carriers and wash solvents. Arsynco indicated that the selvents used be not become a part of the final products that are manufactured onsite. busins chemical reagonts (depending on the batch) are mixed together, along inthe the appropriate solvents, and are reacted is reactors. After the reactions occur, the products are separated from the reaction medium by filtration contribuging, or by being "kicket" out of the reaction medium by the addetion or contain chemicals.

After the reactions occur in the presence of the solvents, the spent solvent (ie wash solvents or solvents filtered from the purched etc.) are removed and are either directly distilled or are temporarily stoned in tanks or Sums prior to being redistilled. Aronco stressed that He spent solvents (reaction by-products) are valuable be cause they can be re-used efter distillation and for they contain residual peoplets it ich may be recovered by distillation. The facility also indicated that in some processes, the product is separated Rom the reaction medium by flashing the roberts of (ie the product is the still bottom). In this case the solvent is not "grent" but is merely asparated from the product. Arsynce indicates that the shout solvents that it generates are monered by morte distillation.

#### FACILITY DESCRIPTION AND OPERATIONS

Some of the spent solvents are stoned in above ground tanks prior to being recycled for periods of less than one (1) week, according to Arsyuco. The impany said that the spent solvents cannot be re-used in their production processes unless they are re-distilled, i.e., recycled. Arsynco said that they did not store any of their spent solvents in either of their two (2) tank farms. The company was accomplished in four (4) clone ground tanks that were located adjacent to building #8. Historica will cated The company indicated that they had three (3) stills onsite. One (1) had a capacity of ditilling 1600 gallors per day and two (2) each had a capacity of 1000 gallors The failty has a large cooling port asite (500,000 gallow capacity). This pond is supplied by an ousite well, The pond supplies non contact cooling water for use in the plant The cooling water is neturned to the pand afite. it is used. Occasionally, water is discharged from the pind to Berry's Creek The company has a DSW/NJPDES Permit for this activity The number of the persont in NI 0030970 Toint theting Sewerage Treatment Plant of Rutherford, & Rutherford

#### FACILITY DESCRIPTION AND OPERATIONS

and Contact. They have a NJPDES/SIZE modification permit (same permit sumber) All of the company's process waste water flows into an onsite treatment pit which according to angue, is lived with bricks). The company has no discharge to grombwater permit for this un treatment pit (surface informalment). Process wastervolts which enters this unit is skimmed (to remove solvent layer), pH adjusted, clarified, stripped of UOS (in an stripper), sampled and discharged to the sity sever. City water is used in the manufacturing process well water is used for non-contact cooling. Avsince stated that they applied for a discharge to grandwater permit CDSG) for their treatment pit. To Late nove he hear issued. Le División of Water Resources to Arsynco. The DWR- Micho Office is actively involved with the "water aspects" of the company. The company also has an permits from the NJDEP! About 135,000 gallous fer day of process wante water is discharged to the server. The boulity has hulk storage of various hazardous materials (solvents, acids, bases) in then two (2) tank framus the tank farm stores solvents and full (oil { gasoline) and the other stones acids and bases. Solvents are also stored outside of the tant farm in storage tants Arsyuco indicated that over 200,000 jallons of solvents were

#### FACILITY DESCRIPTION AND OPERATIONS

in storage in the tank farm. The company said that alink 90% of the solvents used were recycled and 10% was make-up solvents. About 20,000 16 of solvents are used per week at the facility. examples of rolvents used at the company of are: xglene, tolerene, methyleve chloride chloroform, isopropyl alcolips, methonal, chlorotohiene, and others. The site tow revealed that the company's down management practices were very poor. The company street harardon waster at different location we the plant. All of the dummed waster were stored outside of the buildings exposed to the elements. The waster of the company were broken down into two (2) types, ban'cally One type was designated as wester that would be disposed of at offite hapidons waste facilities. The other type was the ones that would be recycled onsite. The confrances designated drum waste storage area (for offsite disposed) was located to the South-east of the guard-house next to the penting lot and tanks 17 \$18. The two tanks no used for raw material strage. (See sketch). This wate area was not paved. T'ait of this area was very swampy Several dums were stored in hallets is this area. Sity-one (61) 55-gailon from were observed within storage area. Several of these

#### FACILITY DESCRIPTION AND OPERATIONS

drums were in very por conditions. Some were leaking some were not properly closed, and one had no identification marks (label). Except for the one unlabeled dum in this area. all had hazardons waste lakels. That all of the hazardons waste were identified though For instance, some had bazardons waste lakels which also stated "to be coentified". Some of the corroled dums were so bally corroled that the dums me in appened to be in danger of collapsing (severe plating) Photographs of the leaking during and severely covoided during The solvent tank Parm was inspected and its base was not impermeable or it was virgo soil The soil in the tank farm showed visual signs of soil contamination from solvents and for fuel oil. Arspice would not permit the unpetty to take samples. Mir Bennett Managor of Regulation affairs, said that he would have to get the permission of his Boss before he could securit any sompling. Pictures of the tank beneath tank 75-69 showed the greatest evidence of soil contamination. Soil contamination was also observed outside the Lots of dumm were noted in the areas near building #8, 15, 3 and 1. These dum, according to America contained spent reliefle that were about to be recycled

# FACILITY DESCRIPTION AND OPERATIONS

·
and wastes that were destined for disposel. It the dum
that contained spent appoints (for recycling) were not considered
to be baradon vates and consequently bad no harailars
waste lakely on them. They who contained ne accumulation
start dates In the onea next to building 48 and the tank
Rarm for ocids and baces, at least 34 dums with bayardons
waste lakely (forgo said they contained hazardons wastes)
were were seing stored beveral were a very corraded.
Two (d) were so badly corroded that their contacts could be
seen. Pictures of these severely corrected during were
taken. The two (1) severely corroded dums were labeled
"TRIMELII TOYL chloride" (corresine). Mr. Bennet
stated that this was formed from the reaction of
bur Trimellitic auhydride and chlorine. This product
(TMAC) reach with voter to form HCl Thydrochloric
acid). He said the two badly corraded dums
resulted from the TMAC getting contaminated with
water (hence the TMAC couldn't be sold). The TMAC
(2 drum were being managed as barandons wastes by
Arsyico).
Four (U) above ground tanks were observed next to
bulling #8 (picture taken). Their designations and capacities
are a, hallows:
758-1 (4,000 gal) -> stores toluene

#### FACILITY DESCRIPTION AND OPERATIONS

758-2 (4,000 gd) => stores isopropylalcohal (IDA) 758-3 (4,000 gal) > IPA 758-4 (4,000 gel) - (no indication of what was stored) Hisyrco said that the above from (4) tanks used to store "duty solvents" prior to being redistilled. These tanks had no haradons waste Jakes on them and they also had no containment system. Two other tauls, each with a capacity of co,000 gallow, were stored wearly. There are identified to as 758-5 and 758-6. These will be used - Por the storage of "Diety solvents" in the future. They are not being used at this time because the pad beneath them need to be reinforced to support the weight of the tanks when they are full to Picture were taken of these tanles. The settling pit was observed. The strime was cluserum The solvent that was kinsmed of the water surface was placed in 57 galla dums. Then we later taken to be distilled These dumy had no hazardous wrate labels or start dates. This area (settling fit ) was also plentographele. The paperwork review renealed that the company had many deficiencies. The healthy had no evidence to show that the appropriate plant personnel received adequate personnel training (regarding hazardons waste managioment) The fault, had in written waste analysis percedues to address unknown waste streams. (Many "runtmour" hazartins \* according to Mr. Bennett.

# **SUMMARY OF FINDINGS**

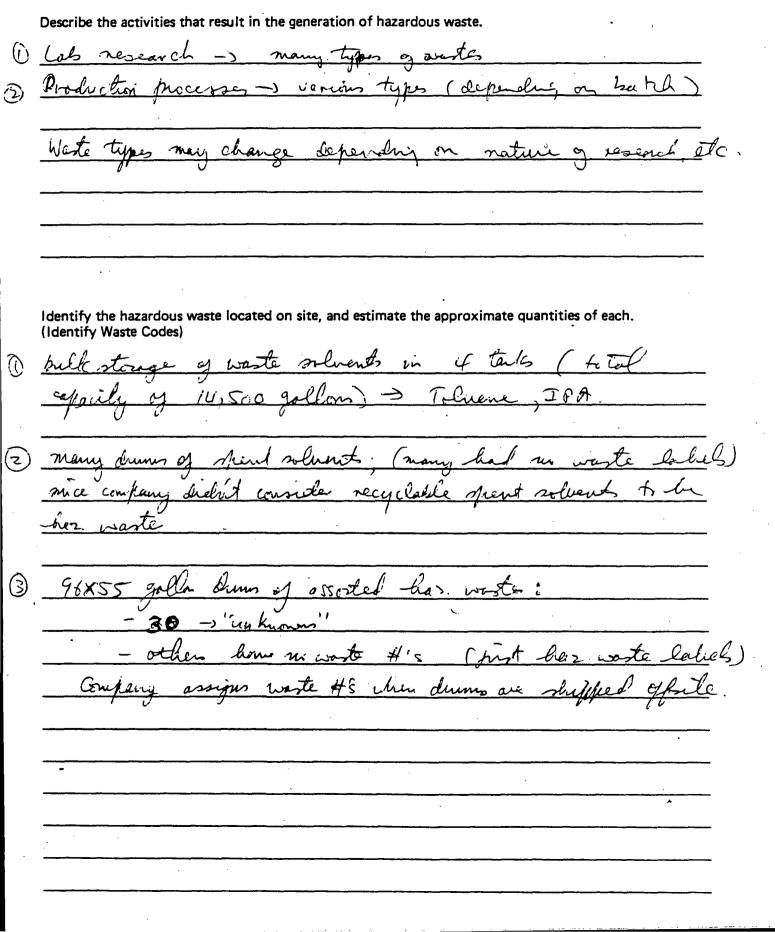
# FACILITY DESCRIPTION AND OPERATIONS

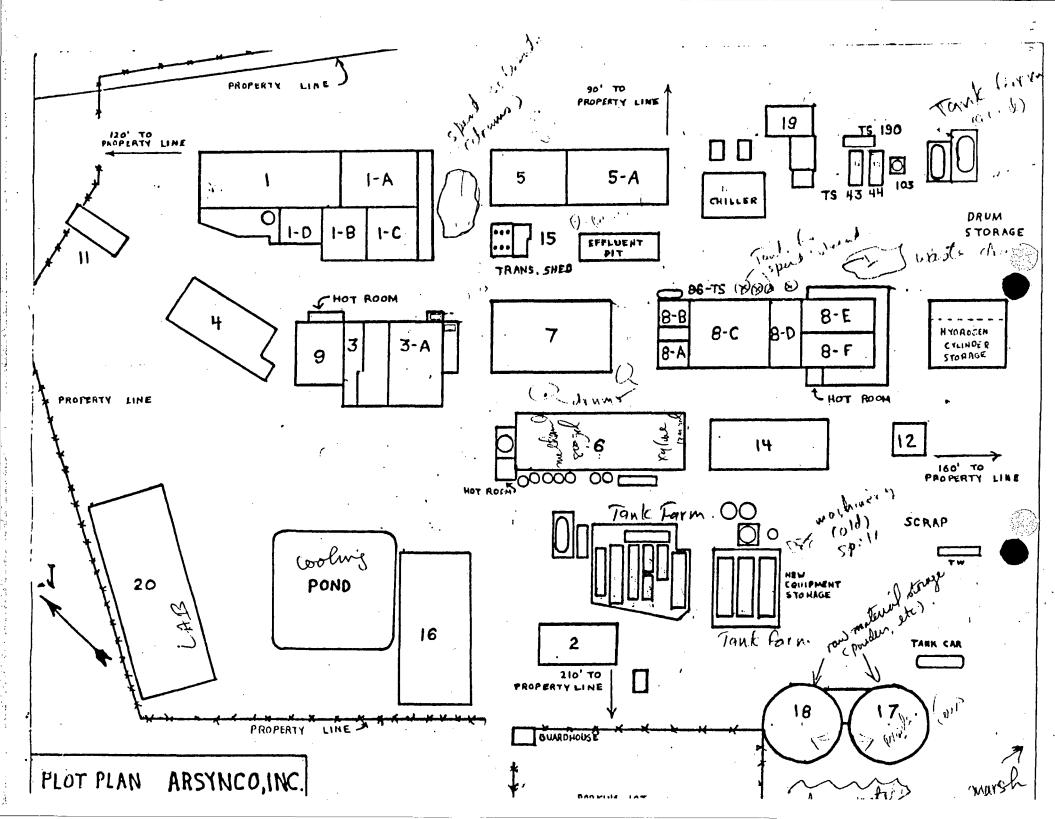
water were observed onsite. The facility dishit inspect their containerized hazardons wastes on a daily basis; their closure plan did not address the solvent storage tank farm area which used to be used to store spent solvents. The claim that Arrunco used to stone waste solvents in their tank farm is documented in the RCRA inspection reports dated 9/17/81, \$ 4/12/84, and 10/18/5. The report dated 9/17/8/ cited Tank 75-78 as being used to store sport solvent. This report also mentioned shillage on the soil in the tank farm from tout 75-78. The report dated 4/12/84 cited fanks 73-100 & TS-78 as being used to store sport orbuents. The state of Additionally, an ost rection memo dated 3/13/81 (attoched) documents that Arsunco used to store waste solvents (for mite incineration) in touts #69,71, and 78 There tanks are in the bank farm were During the inspection Arrayneo was told that their spent wheats we considered to be hazardous wastes, The Bineau of Hazardon Warte Engineering, in a letter dated 10/16/87 informed Arespeco that they may be exempt from the permitting requirements if they compiler with NTAC 7:25-9.3(b) with regards to their storage tanks for the Ment solvents. Additionally brugges was make of aware of

# **SUMMARY OF FINDINGS**

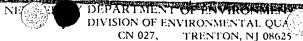
# FACILITY DESCRIPTION AND OPERATIONS

•
the requiement pertaining to the exemption granted at
VJAC 7:26- 9.160)10. This exemption requires them to
comply with MJAC 7:26 - 9:3(a) for their containers that store
naterial (solverts) for recepting.
Arounce was cited for the following:
NJAC7:26-9.4(b)2i, 9.4(g)1-6, 9.4(g)8, 9.7(g).
9.8(e)2, 9.4(d)2, 9.4(d)4i, 9.4(d)3, 9.4(d)40, 9.4(d)5,
9.4(1)6, 9.4(e) Iiii, 7.4(a) 4iii. Also ated were
DEA NJSA 58:10-23.11(C) & (e) (Violation of Spill Action
On 12/3/87 they were cited for violating
NTA(7:26-9.4(m) and on 12/7/87 they were cited
for violating - NJAC 7:26- 9-8(e).
The paperwork review also revealed that bosynco
shipped one shipment of herandom wastes offrite in 1987 (10/20/87).
This consisted of a Shipment of hazardons waste solid NOS
(FOO3). In 1986 there was one waste slupment which
consisted of 60 dums of C38B of C183 vate types (-barardon
waste solids). There were my slugments in 1985 or 1984,
according to the company. The mainfests for 1986 5 1987
(to date) we attached.
Part rispections (1981, 1984, 1985) ated the same publicus
but the company has not inproved.
A copy of the Hoz Waste Rep was give to aromer on 12/3/87.













IN THE MATTER OF ARSYNCO INCORPORATED FOOT OF 13TH STREET CARLSTADT, N.J.

LOG #A871005 MRA

07072

ADMINISTRATIVE ORDER AND

NOTICE OF CIVIL ADMINISTRATIVE

PENALTY ASSESSMENT

This OPDER and NOTICE are issued pursuant to the authority vested in the ' Commissioner of the New Jersey Department of Environmental Protection (the "Department") by N.J.S.A. 13:10-1 et seq., and the Air Pollution Control Act, N.J.S.A. 26:20-1 et seq. (the "Act"), and duly delegated to the Assistant Director for Enforcement of the Division of Environmental Quality pursuant to N.J.S.A. 13:1B-4.

### FINDINGS

As the result of an investigation conducted on June 2, 1987, the Department has determined that at your facility located at the Foot of 13th Street, Boro of Carlstadt, Lot(s) IE, Block(s) 146, County of Bergen, State of New Jersey, (ID #00098) you used the equipment and/or control apparatus associated with Permit(s) to Construct, Install or Alter Control Apparatus or Equipment and Certificate(s) to Operate Control Apparatus or Equipment (P & CT #048667) without fulfilling all conditions and provisions of the Permit(s) and Certificate(s), in violation of N.J.A.C. 7:27-8.3(e)1 by producing yellow dye in Reactor #248 using orthochloro toluene, phthalic arhydride, methanol and methyl quinoline as raw materials. Orthochloro toluene, phthalic anhydride, methanol and methyl quinoline are not listed as raw materials on P/CT #C48667.

- NOW, THEREFORE, IT IS HEREBY ORDERED THAT on or before September 1, 1987, you cease operation of the equipment listed in Paragraph 1 above or operate said equipment in accordance with the above Permit(s) and Certificate(s) or obtain the required Permit(s) and Certificate(s) for such equipment. Such Permit(s) and Certificate(s) may be obtained by submitting application(s) VEM-003 and VEM-004 to the Bureau of Air Pollution Control for approval.
- Based upon the above FINDINGS, and a review of the entire matter, the Department hereby assesses a Civil Administrative Penalty against you in the amount of \$400.00. Payment must be submitted to the Department within twenty (20) calendar days of receipt of this Order and Notice unless you request a hearing in accordance with the provisions of Paragraph 4 below. Payment must be made to the Department at the address listed in Paragraph B of Attachment I.

ATTACHMENT

- 4. Pursuant to N.J.S.A. 26:20-14.1 you are entitled to a hearing if aggrieved by this Order and Notice. Application for such a hearing must be received by the Department within twenty (20) calendar days from receipt of this Order and Notice. In applying for such hearing, you must furnish the Department with the information listed in Paragraph A of Attachment I. If no request for a hearing is received within twenty (20) calendar days, this Order and Notice shall become a final Order and the Penalty will then become due and payable. A hearing request does not stay the terms or effect of this Order.
- 5. The provisions of this Order and Notice shall be binding on you, your principals, agents, employees, successors, assigns, tenants and any trustee in bankruptcy or receiver appointed pursuant to a proceeding in law or equity.
- 6. No obligations imposed by this Order and Notice, with the exception of Paragraph 3, are intended to constitute a debt, damage claim, penalty or other civil action which should be limited or discharged in a bankruptcy proceeding. All obligations imposed by this Order shall constitute continuing regulatory obligations imposed pursuant to the police powers of the State of New Jersey, intended to protect the public health, safety and welfare.
- 7. NOTICE IS GIVEN, that pursuant to N.J.S.A. 26:2C-19(b) and N.J.S.A. 26:2C-19(d), any person who violates the provisions of the Act, or any code, rule regulation or order promulgated or issued pursuant thereto, or who fails to pay a civil administrative penalty in full, shall be liable to a penalty of up to \$10,000 for the first offense, \$25,000 for the second offense, and \$50,000 for the third and each subsequent offense.

Dotad: August 12, 1987

THE PARTY OF THE P

Anthony J. McMahon, Assistant Director Environmental Enforcement

CERTIFIED MAIL

12-5-50



P.O Box 8 • Carlstadt, N.J. 07072 201 - 933 - 2323



March 9, 1987

New Jersey Department of Environmental Protection Division of Waste Management North Region 1259 Route 46 Parsippany, New Jersey 07054

Gentlemen:

# WRITTEN REPORT OF INCIDENT 7:26-9.7(L)9 - CONTINGENCY PLAN EMERGENCY PROCEDURES

- I. Arsynco, Inc.
  P. O. Box 8
  Foot of 13th Street
  Carlstadt, New Jersey 07072
  (201) 933-2323
- II. Same as above.
- III. Sunday, February 15th, 1987, at approximately 5 p.m. the guard noted that there appeared to be smoke coming from the front part of Building No. 8 (west side) and the sprinkler system was on. The quard immediately called the Fire and Police Departments. The Fire Department did not find any sign of a fire but the sprinkler system was on, steam coming from the water hitting the steam pipes and fumes in the front part of the building. Since there was no fire, the Fire Department turned the sprinkler system off but left a small water line on. We found that there had been a pressure build up and release in Reactor S-224 resulting in the breakage of the glass column on S-224 and the release of approximately 200 gallons of material to the floor and drain. The drain is connected to our treatment pit.

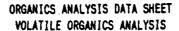
- IV. 2-Nitro-N (2-Hydroxy Ethyl) Aniline (C.A.S. No. 4926-55-0)
  - V. No injuries.
- VI. 2-Nitro-N (2-Hydroxy Ethyl) Aniline is not a hazardous material. (It is a hair dye.) It has a melting point of 72°-75°C and is soluble in water. This release did not cause damage to the environment or to human health.
- VII. There was 200 gallons of material spilled on the floor and into the drain that is connected to our treatment pit.
- VIII. The 200 gallons on the floor and in the drain was washed down with water. The drain is connected with our treatment pit. Our treatment pit is equipped to remove oil and grease, pH adjustment, solid separation and the water is air stripped before being discharged to the sewage treatment plant. Five sprinkler heads were replaced on Tuesday morning, February 17th, 1987, and the sprinkler system was turned on.
  - We have manufactured this product for over twenty IX. years. After extensive lab work, we changed the process to eliminate a chlorinated solvent. This was the fourth batch that was run using our new process. We had no problems with the first three batches. The only thing that was done with the fourth batch was to extend the reaction time by 12 hours. We ran this batch for 60 hours instead of 48 hours. In the lab we found that the majority of the reaction was over in 48 hours and running the reaction for 100 hours did not result in any problems. The reaction is kept at 70°C for 48 hours and on this batch the reaction time was over with at 11 a.m. Saturday, February 14th, 1987; because the plant was working, it was decided to continue heating until 11 p.m. Saturday night. At the end of this time the heat was turned off and the batch left stirring. The incident happened at approximately 5 p.m. Sunday, February 15th, 1987.
    - 2. We have a sample from this batch when the reaction time was finished. We are running this sample in the lab to see if anything will happen if this sample is heated for sixty hours.

#### REPORT NARRATIVE

This report contains the results of the analysis of samples by NET Mid-Atlantic, Inc. for the New Jersey Department of Environmental Protection (NJDEP). The samples were from case number 02-05-12. The samples were received by the laboratory on May 5, 1988 and analyzed for Purge and Trap Volatiles (PAT-VOA). There is a laboratory chronicle provided which lists the samples associated with this report.

The facts below are noncompliance aspects of the data or useful information about the samples.

- The Trip Blank was not analyzed per Mr. Wayne Howitz's instructions.
- 2. These samples were prepped as medium level samples because of matrix interference evident in the appearance of the samples. A medium level sample is prepped by taking 4 grams of soil and adding 10 mls of methanol. Then an appropriate volume of methanol is withdrawn and sparged (i.e. 100 ul or less). The detection level is raised. Furthermore, dilution was required and this increased the detection level even more.
- 3. The Quality Control Spike for the PAT-VOA analysis was performed on a sample that contained a significant amount of Toluene. For this reason the recoveries and RPDs were outside the control limits for Toluene in the spike.
- 4. The Method Blank for PAT-VOA analysis (>C9639) contained a significant amount of two Tentatively Identified Compounds (TICs). The blank is a methanol blank and any targets are scaled up 125 fold. Thus the blank should not be considered grossly contaminated with Tentatively Identified Compounds.



Sample ID

STE 017

Laboratory: NET Mid-Atlantic, Inc.

Sample Matrix: Non-Aqueous

Concentration: L

Percent Moisture: 27.51

Lab Sample ID No: 6857

Date Sample Received: 5-6-88

Date Extracted: 5-5-88
Date Analyzed: 5-13-88

	ug/k	ug/kg			
Chloromethane	340000	U	1,2-Dichloropropane	170000	U
Bromomethane	340000	U	trans-1,3-Dichloropropene	170000	U
Vinyl chloride	340000	IJ ·	Trichloroethene	170000	U
Chloroethane	340000	U	Chlorodibromomethane	690000	U
Methylene chloride	170000	Ü	1,1,2-Trichloroethane	170000	U
Benzene	170000	U	cis-1,3-Dichloropropene	170000	U
1.1-Dichloroethene	170000	U	2-Chloroethyl vinyl ether	340000	U
1,1-Dichloroethane	170000	U	Bronoform	170000	U
Total-1,2 Dichloroethene	170000	U	Chloroform	170000	Ü
1,2-Dichloroethane	170000	U	Tetrachloroethene	170000	U
1,1,2,2-Tetrachloroethane	170000	Ü	1,1,1-Trichloroethane	170000	U
Toluene	2000000	_	Carbon tetrachloride	170000	U
Chlorobenzene	17000Ó	U	Ethylbenzene	3400000	
8romodichloromethane	170000	U	<b>.</b>		

U Indicates compound was analyzed for but not detected (eg. 100), based on necessary concentration/dilution. The number is the minimum attainable detection limit for the sample.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

# ORGANICS ANALYSIS DATA SHEET VOLATILE ORGANICS ANALYSIS

Sample ID

STE 018

Laboratory: NET Mid-Atlantic, Inc.

Sample Matrix: Non-Aqueous

Concentration: L

Percent Moisture: 25.82

Lab Sample ID No: 6858

Date Sample Received: 5-6-88

Date Extracted: 5-5-88
Date Analyzed: 5-13-88

ug/kg				ug/kg	
Chloromethane	3400000	U	1,2-Dichloropropane	1700000	Ü
Bromomethane	3400000	U	trans-1,3-Dichloroprop <del>ene</del>	1700000	U
Vinyl chloride	3400000	U	Trichloroethene	1700000	U
Chloroethane	3400000	U	Chlorodibromomethane	6700000	U
Methylene chloride	1700000	U	1,1,2-Trichloroethane	1700000	U
Benzene	1700000	U	cis-1,3-Dichloropropene	1700000	U
1.1-Dichloroethene	1700000	U	2-Chloroethyl vinyl ether	3400000	IJ
1.1-Dichloroethane	1700000	U	Bronoform	1700000	U
Total-1,2 Dichloroethene	1780080	U	Chloroform	1700000	U
1.2-Dichloroethane	1700000	U	Tetrach <b>loroethene</b>	1700000	U
1,1,2,2-Tetrachloroethane	1700000	U	1,1,1-Trichloroethane	1700000	U
Toluene	17000000	7	Carbon tetrachloride	1700000	U
Chlorobenzene	1700000	บ่	Ethylbenzene	7100000	
Bromodichloromethane	1700000	Ü	· .	•	

Indicates compound was analyzed for but not detected (eg. 100), based on necessary concentration/dilution.

The number is the minimum attainable detection limit for the sample.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

# ORGANICS ANALYSIS DATA SHEET VOLATILE ORGANICS ANALYSIS

Sample ID

STE 019

Laboratory: NET Mid-Atlantic, Inc.

Sample Matrix: Non-Aqueous

Concentration: L

Percent Moisture: 2.11

Lab Sample ID No: 6859

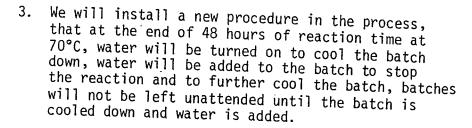
Date Sample Received: 5-6-88

Date Extracted: 5-5-88
Date Analyzed: 5-13-88

	ug/k	g		ug/kg	
Chloromethane	260000	υ	1,2-Dichloropropane	130000	U
8romomethane	260000	U	trans-1,3-Dichloropropene	130000	U
Vinyl chloride	260000	U	Trichloroethene	130000	IJ
Chloroethane	260000	U	Chlorodibromomethane	510000	U
Methylene chloride	130000	U	1,1,2-Trichloroethane	130000	U
Benzene	130000	U	cis-1,3-Dichloropropene	130000	U
1,1-Dichloroethene	130000	U	2-Chloroethyl vinyl ether	250000	U
1,1-Dichloroethane	130000	U	Bromoform	130000	U
Total-1,2 Dichloroethene	130000	U	Chloroform	130000	U
1,2-Dichloroethane	130000	U	Tetrachloroethene	130000	IJ
1,1,2,2-Tetrachloroethane	130000	U	1,1,1-Trichloroethane	130000	U
Toluene	1300000		Carbon tetrachloride	130000	U
Chlorobenzene	130000	บ	Ethy 1 benzene	1800000	
Bromodichloromethane	130000	U			,

U Indicates compound was analyzed for but not detected (eg. 100), based on necessary concentration/dilution. The number is the minimum attainable detection limit for the sample.

This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable contamination and warms the data user to take appropriate action.



4. We will not start another batch in the plant until the lab work is finished.

Very truly yours,

ARSYNCO, INC.

Waley Bennett, Manager Regulatory Affairs

(Emergency Coordinator)

# Division of Environmental Quality Teau of Emergency Response

# INVESTIGATION

Case #: 87-02-15-1739	File #: 02 - 05
Investigator: Andrew Tynan Jo	E HOYLE Date: 2/15/87 Time Arrived: 1925 Time Departed: 2049
Location: Arsynco Inc.	Property Owner:
Address: P.O. Box 8 - 13th Str	eet Mailing Address:
Carlstadt	
Location Phone #: 933-2323  Health Dept. Rep:	Phone #:
Origin of Complaint: Lt. Higgins	S (C.P.D.) Phone #: 438-4300
Nature of Complaint: Hydrochlor will not permit Carlstadt Fire D	cic Acid chemical fire. Company is fighting the fire and Dept on site.

Weather - Partly cloudy, Winds -West at 12-18 MPH, 10° F.

# Findings:

1755 Hrs: I was informed of this incident and requested to respond by Gary Allen.

1920 Hrs: I arrived on site and met with Burt Bellows (C.F.D. - Chief) Wesley Bennett (Arsynco - Regulatory Affairs) and James Dillon (Arsynco - V.P. and G.M.). By this time, the Fire Dept and Company representatives had toured the inside of Building #8 and determined that a sprinkler head was activated but no visible fire or evidence of a fire was apparent. Visibility was poor - as a result of water contacting exposed steam lines.

Additional information was secured from the Company representatives. Building #8 is a four floor building used for batch manufacturing. It contains several Pflaudler glass lined reactors. On this Date, it was unattended, but several reactions were on hold since February 13 for the three day weekend. It had not been verified, but that area could have been manufacturing a hair dye or a pharmaceutical intermediate.

1700 Hrs: (approximately) Local police observed a smoking condition from this building. The Fire Dept responded and observed white/yellow smoke emanating from the building and blowing into the Meadowlands. No evacuations were conducted either on or off property.

ATTACHMENT L



1950 Hrs: Trenton Dispatch was updated.

2000 Hrs: The building was reentered by Company representatives, Joe Hoyle, and myself.

The building was ventilated and visibility had improved. There was no odor within the building, but as entry was gained to the affected area, a brown oily liquid was evident coating all equipment within a given area. By this liquid's stain, it appears that it had been blown from a specific source in the building (i.e. shaded areas were protected). This material had a pH Greater than 10 and could not be identified by Company Reps. It was decided to exit the building.

It was assumed, by the flowing water, that a line froze and burst. Company Reps decided against shutting down the cooling water supply in the event that other vessels needed to be cooled. The runoff of the pH was 7-8 and would enter the chemical on-site sewer when thawed.

The company believed that a crew would enter the building in the A.M. to determine the exact cause of the incident. At this time, all indications are that a vessel or relief device ruptured within the building. No off-property emissions were occurring.

2030 Hrs: Update Gary Allen. 2045 Hrs: Secure from scene.

# February 17, 1987

I spoke to Wes Bennett. The cause of the incident was traced to a 1,000 gallon 1000 Hrs: This contained approximately 500 Gallons of the completed reactor S #224. product 2 nitro - N (2 Hydroxyl Ethyl) Aniline, CAS #492655-0, a hair tint. The reaction involves Methanol Amine and Ortho Chloro Nitro Benzene and results in 92% conversion. It was determined that the glass riser leading to a condensor and possibly the vessel's rupture disc, shattered and released the product. The cause of overpressurization is unknown at this time. This product has been manufactured here for approximately 15 years, but the process has recently been changed to eliminate the solvents Trichloroethylene and Isopropanol. the fourth batch of the new process. The vessel was agitated before the incident to prevent crystalization.

The company will have their individuals in the building conducting the cleanup today.

As information into the cause is determined, a company report will be forwarded to the office.

Conclusions: 'A reaction in a hair tint product, while still in its reactor, caused the failure of the reactor or its associated glassware and its release to the interior building. Cause is still undetermined, and the company is performing a cleanup.

PERFORMANCE AUDIT INSPECTION REPORT Arsynco, Inc. 13th Street PO Box 8 Carlstadt, New Jersey

NJ 003 0970

April 9, 1986

Participating Personnel:

Environmental Protection Agency

Al Hernandez, Environmental Engineer Kate Donnelly, Environmental Engineer Mike Ferriola, Environmental Scientist

Arsynco Inc.

Wesley Bennett, Manager Regulatory Affairs

New York Testing

Reno Gigante, Lab. Director

Report Prepared by:

Al Hernandez, Environmental Engineer

Source Monitoring Section

Richard D. Spear, Chief

Surveillance & Monitoring Branch

Approved for the Director by:

ATTACHMENT M

# Objective

This performance audit inspection was conducted to determine the quality and reliability of the self-monitoring data submitted by Arsynco Inc. of Carlstadt, New Jersey in fulfillment of the requirements of NPDES Permit No. NJ 003 0970.

#### Plant Description

The Arsynco facility manufactures organic speciality chemicals by batch processes. The facility employs 60 workers and operates 24 hours/day, 5 days/week. At the time of this inspection, operations were at about 50 percent of full production.

The facility uses two separate process schemes for production. Products which are solids are manufactured by reacting the raw materials followed by subsequent crystallization, drying and milling. The product is then packaged for shipping. Liquid products only require distillation after reaction with the raw materials.

# List of Products and Raw Materials (Arsynco Inc.)

# Major Products (150,000 to 200,000 lbs/yr).

#### Name

Phenol Propanol Amine -Propylene Imene -Sima -

# Raw Materials Used

Propanol, toluene, HCL Monoisopropenol, Amine Sulfate Sodium, Methyl Acetamide, Methyl Vinyl dichlorasilane

### Minor Products (10,000 to 1,000 lbs/yr).

Homo Methyl Salicylate Hair Dyes Pigments Dibenzyl dimethyl Amine -

TriMethyl Cyclohexanol, Methyl Salicylate Nitro Floro Alinene, Mono Ethanol Amine Phthalic Anhydride, 1,8 DiAmino Naphthalene DiMethyl Amine, Benzyl Chloride

AL

Most of the water used within the facility is well water used for non-contact cooling at a rate of 112,623 GPD. All other water from the facility is supplied by the Carlstadt Water Authority at the rate of 32,720 GPD. The facility does not pretreat it's water prior to use.

The permittee maintains two active discharges:

Discharge 001 leads to Berry's Creek. This discharge is composed of non-contact cooling water from condensers, heat exchangers, vessel jackets and vacuum generation equipment. The facility maintains a half million gallon pond which is used as a reservoir. The pond's level is maintained by a level controller which automatically operates a deep well pump to charge the pond with make-up water. Water from the pond is pumped to an elevated water tower. From this water tower the water flows by gravity to the facilities process equipment. Cooling water is finally sent to the pond for reuse.

• At the time of this inspection no flow was observed from Discharge 001. The facility stated that flow for this discharge generally averages about 5,000 gal/month.

Discharge 002 leads to the Rutherford, Carlstadt Joint Meeting sewage Authority. This discharge is composed mostly of wastewater used for chemical manufacturing, raw material dilution, vessel washing, boiler make-up water, fire and sanitary water. Prior to discharge, water is sent to an effluent basin (referred as "The Pit"). At the basin, suspended solids are settled out and floating solids with solvents (Xylene, toluene) are recovered by the use of floating skimmers. PH is controlled at the basin by the manual addition of caustic or acid solutions.

- At the time of inspection the skimmers used in the effluent basin seemed not to be functioning properly.
- The effluent basin was last cleaned in July of last year. The facility reported that 5,000 gal/sludge were removed, consisting of 10 to 12 percent solids. The composition of the solids were said to be 43 percent silica and 42 percent calcium. This sludge is disposed as hazardous waste by Waste Conversions of Pennsylvania.
- The facility is in the process of installing an automatic pH control system and hopes to have it on line by July 1 of this year. The permittee admitted difficulty in the manual control of pH.

New York Testing of Westbury, New York performs the following analyses for Arsynco; COD, TSS, and Petroleum hydrocarbons. The facility personnel collect their own samples with bottles and preservatives supplied by New York Testing.

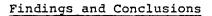
Arsynco's in-house laboratory performs the following analysis; temperature and pH.

\* See Findings and Conclusions section of this report for Lab Related Deficiencies.

Flow is measured automatically by the use of a weir, transponder, flow meter and totalizer.

A PCS retrieval edit report submitted on March 21, 1986 showed the facility as not reporting flow on the following dates: June 30, 1984, July 31, 1984, January 31, 1985, February 28, 1985. This is due to the permittee leaving a blank space on the discharge monitoring reports to represent zero flow. All other data submitted on the DMR's for the dates in question were obtained from the analysis of water taken from the pond (samples taken from the pond are not representative).

The PCS retrieval also does not show the modifications made to the permit issued on March 14, 1985. This previous permit required the reporting of temperature, oil and grease, flow, COD and pH. Chromium and zinc are not reported because of the facility's absence of corrosion inhibitors in it's cooling water. The modifications made to this permit require the additional reporting of petroleum hydrocarbons and total suspended solids. The facility has been conducting the analysis for these parameters but has not been reporting the results to EPA due to a lack of a modified DMR form with these parameters.



Based upon a April 9, 1986 inspection of the permittee's self-monitoring; sample collection techniques, flow measurement and analytical procedures, it was determined that Arsynco Inc. is not in compliance with the requirements of their NPDES permit. The following problems were noted:

- 1. The facility does not keep records of flow meter calibrations. The facility stated that the flow meter was last calibrated 14 months ago but no records were shown.
- 2. The facility is not collecting petroleum hydrocarbon samples properly. Facility personnel collect samples in one bottle then transfer the contents to the bottle used for the analysis. For petroleum hydrocarbon analysis, only the original sampling bottle should be used.
- 3. The facility has New York Testing conduct oil and grease analysis in place of the petroleum hydrocarbon analysis required by their permit.
- 4. The facilties thermometer should be calibrated at least once a year against an NBS tracable thermometer.
- 5. Although the facility stated that records of the calibrations used for the pH meter exist, they could not be found at the time of this inspection.

The following problems were noted in the laboratory:

- a) New York Testing uses EPA method 410.1 (titrimetric, midlevel) for its COD analysis. This method is only applicable for organic carbon concentrations of 50 mg/l or greater. Arsynco's samples should be analyzed with EPA method 410.2 which is a low level modification of this method for organic carbon concentrations of less than 50 mg/l.
- b) The drying oven used for total suspended solids analysis was not operating within the range of 103°C to 105°C. The oven temperature fluctuated substantially from this range.
- c) Total suspended solids samples are not being refrigerated during and after collection.

- d) The oil and grease analysis is not being performed properly for the following reasons: (The deficiencies noted for oil and grease analysis are those parts of the analysis which are identical to Petroleum Hydrocarbons).
  - Only a portion of the whole sample is used for the analysis. The entire sample must be used.
  - The sample bottle and the graduated cylinder are not extracted three times.
  - For oil and grease analysis duplicates must be run as a separate grab sample. New York Testing runs duplicates as a portion of the original sample.

# Attachments:

- 1 Plot Plan of Arsynco, Inc.
- 2 Water flow diagram supplied by Arsynco, Inc.
- 3 Water balance supplied by Arsynco, Inc.

Q 2-05-12

# PHASE II DIOXIN SITE INVESTIGATION

FINAL REPORT

ARSYNCO, INC.
CARLSTADT, NEW JERSEY

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WASTE MANAGEMENT HAZARDOUS SITE MITIGATION ADMINISTRATION TRENTON, NEW JERSEY

**ECJORDANCO** 

DECEMBER 1985

ATTACHMENT \

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# PHASE II DIOXIN SITE INVESTIGATION

FINAL REPORT

FOR

ARSYNCO, INC. CARLSTADT, NEW JERSEY

# Submitted To

New Jersey Department of Environmental Protection
Division of Waste Management
Hazardous Site Mitigation Administration
428 East State Street
Trenton, New Jersey 08625

Ву

E.C. Jordan Co. P.O. Box 7050, DTS Portland, Maine 04112

December 1985

# ARSYNCO, INC. CARLSTADT, NEW JERSEY

## 1.0 BACKGROUND

# 1.1 Project Description

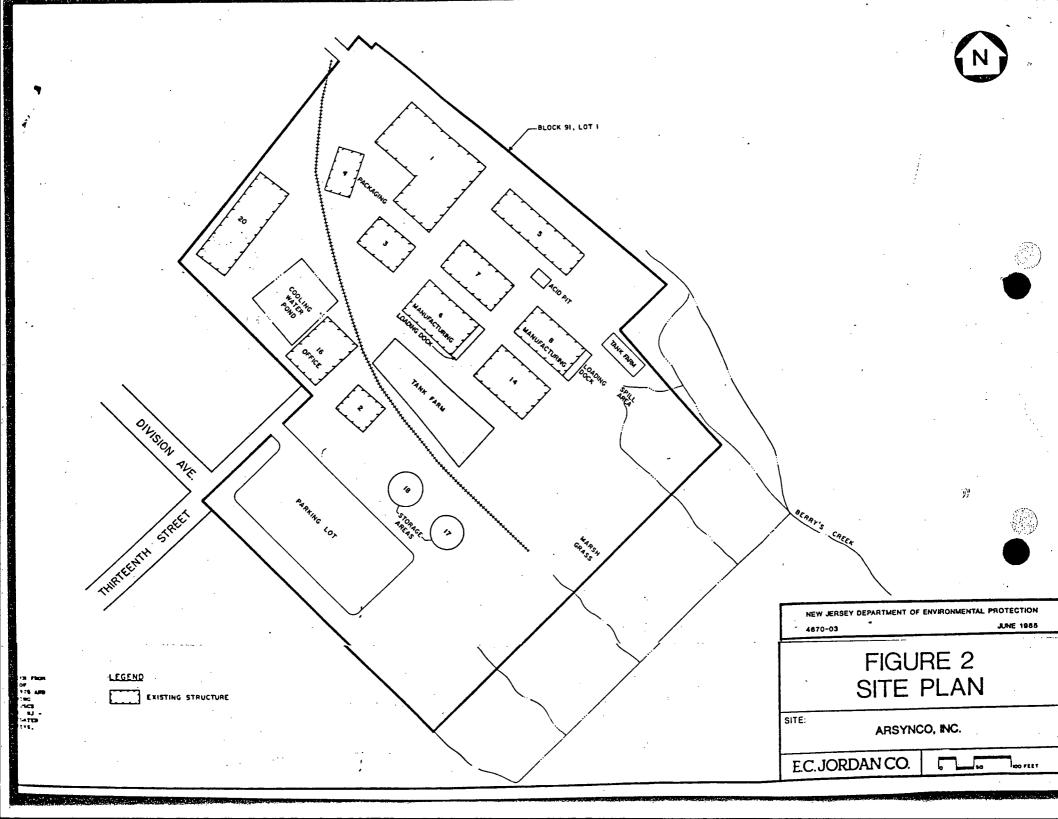
The New Jersey Department of Environmental Protection (NJDEP), in cooperation with the U.S. Environmental Protection Agency (EPA), is responsible for the identification and assessment of potential dioxin contamination in the State of New Jersey. During Phase I of the Dioxin Site Investigation Program, the NJDEP collected and analyzed soil samples from nine sites where compounds known to be associated with dioxin were produced. As part of Phase II of the program, soil and sediment samples from an additional 23 sites selected by the NJDEP were analyzed for dioxin contamination.

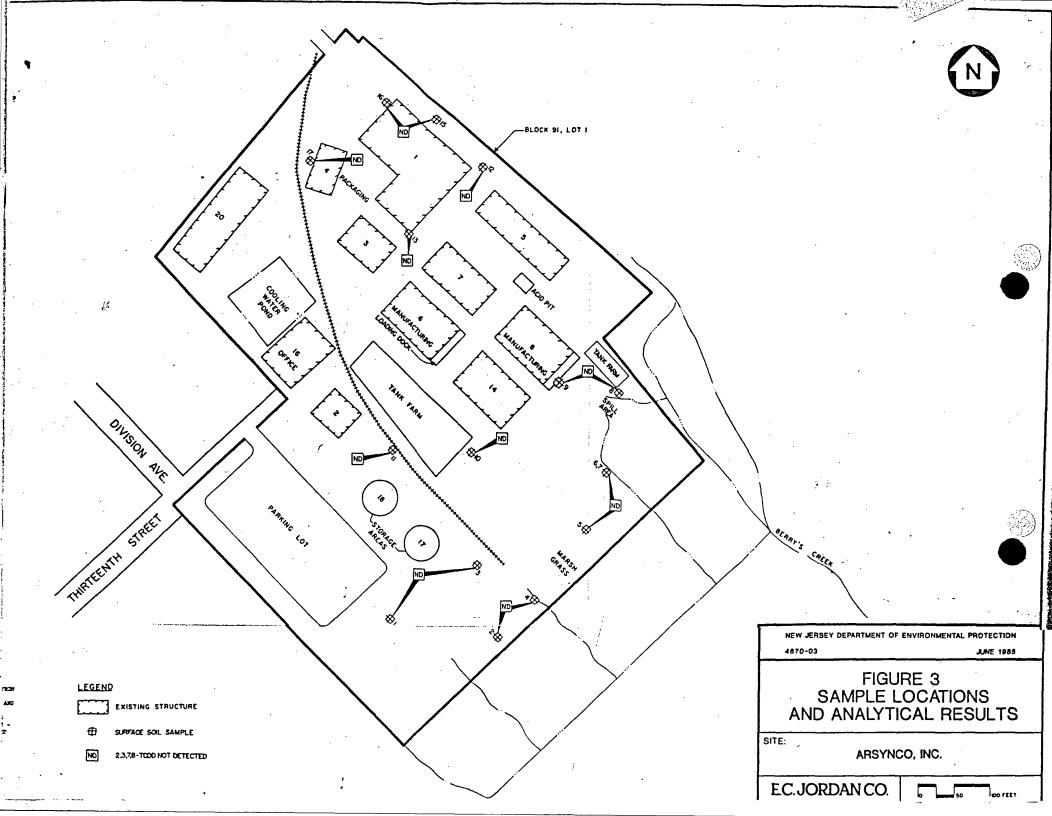
This report summarizes the Phase II dioxin investigation of Arsynco, Inc. in Carlstadt, NJ conducted by E.C. Jordan under contract to the NJDEP. The investigation consisted of five major tasks: (1) file review; (2) site reconnaissance; (3) sample collection; (4) sample analysis; and (5) report preparation.

Records on file at the following offices of the NJDEP were examined during the file review:

- o Division of Waste Management, Hazardous Site Mitigation Administration, Trenton (HSMA);
- O Division of Waste Management, Bureau of Field Operations, Parsippany-Troy and Yardville (DWM);
- o Office of Science and Research, Industrial Investigation Unit, Trenton (OSR); and
- o Division of Water Resources, Trenton (DWR).

Records on file at EPA's Region II Office in Edison, NJ were also reviewed.





During the site reconnaissance, site personnel were interviewed to confirm file information. Sample locations were selected based on the site use history and observations made during the reconnaissance. The sample location selection process was designed to include those areas with the greatest potential for dioxin contamination. Because of the low mobility of dioxin in soils, most samples were collected within the surficial soil stratum (0 to 6 inches). Samples were delivered to the Environmental Testing and Certification Corporation (ETC) in Edison, NJ for analysis of dioxins, in particular the chlorinated dioxin isomer, 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD). Samples from this site were subsequently sent to California Analytical Laboratories, Inc. (Cal-Analytical) in West Sacramento, CA for re-analysis.

## 1.2 Site Location

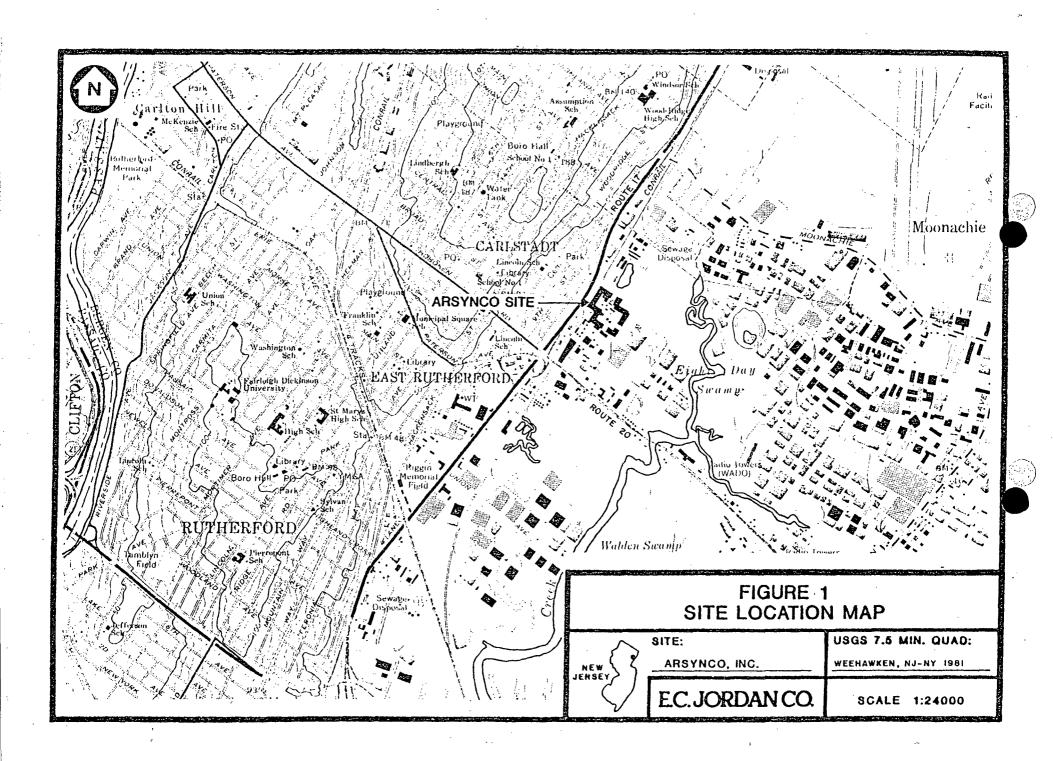
Arsynco, Inc. Subsidiary of Aceto Chemical Co., Inc. Foot of 13th Street Carlstadt, New Jersey 07072

Bergen County
Latitude 40° 50' 07" Longitude 74° 05' 03"

Carlstadt is in northeastern New Jersey, approximately 10 miles northeast of Newark. The site is northeast of intersection of Route 17 and Route 20 (Figure 1).

# 1.3 Site Topography and Layout

The Arsynco site is predominantly flat with an elevation of between 5 and 10 feet above mean sea level (MSL). Elevations rise sharply to 200 feet above MSL west of Route 17. This higher land is a densely populated, residential/commercial area. The Arsynco plant was constructed on former swamp land



drained by Berry's Creek, a tributary of the Hackensack River. While much of the former swamp has been filled in for industrial development, some open swamp areas still exist approximately one-half mile south of the site (Figure 1).

Figure 2 depicts the layout of the 9.3-acre Arsynco site.

# 1.4 Environmental Setting

Stormwater runoff from the Arsynco site is channeled directly to Berry's Creek which in turn flows through a tidal wetland to the Hackensack River (2). The property is on a floodplain and minor flooding occurs on average twice a year (8).

There are no monitoring wells at the Arsynco site (8). Consequently, information on the site hydrogeology was not available. There is one supply well on-site which is used as a cooling water source. Non-contact cooling water is discharged to the cement-lined pond depicted in Figure 2 (8).

# 1.5 Site Use History

According to the Manager of Regulatory Affairs for Arsynco, the history of chemical production at the site dates from circa 1905. Commercial Solvents was one of the first occupants, followed by Fries Brothers in 1932. In the late 1950's, the site was sold to the Inmont Corporation, and in 1969, it was purchased by Arsynco, Inc. Arsynco is owned by the Aceto Chemical Co., Inc., a holding company which is engaged in the import and export of chemicals (8).

Arsynco's primary products are organic chemical intermediates, pharmaceuticals, amines, organic chlorides, and hair dyes (2,8). A 1980 HSMA report states that hazardous substances used in manufacturing processes include

toluene diisocyanate, 2-methylaziradine, methylene chloride, 1,1,1-trichloroethane, xylene, methanol, phenol, naphthol, and pyridine (2). Arsynco also packages and repackages chemicals for Aceto (8).

Reports of site inspections conducted by the NJDEP in 1977 and 1984 document poor housekeeping practices at the Arsynco plant (2,5). Specifically noted were leaking and rusting drums, unlabeled containers, and unsegregated hazardous wastes. During the 1977 inspection, there was evidence of numerous small chemical spills on the premises. One area of repeated spills, drained by two shallow channels which lead directly to Berry's Creek, is shown in Figure 2 (2). In response to notifications of waste management violations by the NJDEP, Arsynco reportedly conducted a site cleanup campaign during the summer of 1984 (5). However, several areas of discolored soils and strong odors (possibly toluene) were noted during the site reconnaissance.

## 2.0 POTENTIAL DIOXIN CONTAMINATION

# 2.1 Use, Production, or Disposal of Dioxin-Associated Chemicals

Based on EPA files, OSR identified Arsynco as a former producer of 2,4,5-trichlorophenol (6). EPA has also listed Arsynco and the former owner Inmont Corporation as producers of 3,5-dichlorosalicylic acid (1). Arsynco representatives stated that to their knowledge, neither of these chemicals had ever been produced at the site (6,8). However, the Manager of Regulatory Affairs (W. Bennett) said it is possible that 2,4,5-trichlorophenol may have been repackaged at the site (8). This compound is classified by EPA as a Class I pesticide which means that it is highly likely to be associated with the presence of dibenzo-p-dioxins (1). The compound 3,5-dichlorosalicylic acid is a Class II organic compound as defined by EPA (1).

# 2.2 Storage and Handling Methods

Based upon observations made during the site reconnaissance, the most likely locations for repackaging operations to have occurred at Arsynco would be Buildings 4 and 8 which are shown in Figure 2. No information was available concerning the storage and handling of 3,5-dichlorosalicylic acid by Inmont Corp.

# 2.3 Past Sampling Efforts

There were no records in the NJDEP or EPA files which indicated previous soil, sediment, surface water, or groundwater sampling at the Arsynco site for dioxin analysis.

# 3.0 SITE RECONNAISSANCE AND RATIONALE FOR SAMPLING LOCATIONS

# 3.1 Summary of Site Reconnaissance

On March 28, 1985, E.C. Jordan Co. personnel (W. Britton and C. Moore) and NJDEP representatives (E. Stevenson and R. Tuccillo) met with the President of the Aceto Chemical Co. (S. Mann) and the Manager of Regulatory Affairs for Arsynco (W. Bennett) at the Arsynco plant in Carlstadt. The meeting consisted of two parts: (a) an interview during which site use history and production practices were discussed; and (b) a tour of the facility under the direction of Mr. Bennett.

Utilizing the observations made during the site visit, in addition to the information gained from the file search, six sample areas have been identified at this site. These areas, shown on Figure 2, are:

- o the open area south of the parking lot;
- o the drainage swales and surrounding areas at the southern end of the site;

- o the open area south and east of Building 8;
- o the open area southeast of the tank farm;
- o the rail spur which traverses the site from north to south;
- o the drainage areas surrounding Building 1.

# 3.2 Rationale for Sampling Locations

During the site visit there were several truck trailers and tankers parked at the southern end of the parking lot. Behind these vehicles was an area containing numerous barrels. Because of the potential for leaks from barrels or parked tank trucks, the area south of the parking lot is a proposed sampling area. In addition to this area, there are three well-defined swales which drain the southern half of the site. If materials were spilled during the manufacturing process or while moving containers around the site, the materials could be picked up in surface runoff and transported off-site. Samples collected from these swales should be indicative of any dioxin movement in this area. Samples should also be collected from the surface soils between the swales, since these areas are used for materials storage and are potential points of sediment deposition during periods of flooding.

Building 8 is used as a manufacturing or process area. Raw materials are brought in and/or stored in the loading dock area of this building. Spills which occur during unloading, loading, or storage would tend to accumulate in the soils adjacent to the dock. Surface runoff in this area is primarily directed toward the eastern property line where an ill-defined drainage channel carries it off site. Consequently, both the dock and drainage areas provide suitable points for collecting soil samples which would be representative of this portion of the site.

A topographic low area is situated southeast of the tank farm. Not only does this area have a potential for ponding of surface runoff, but the surficial soils are currently highly stained in this location. Therefore, this depression serves as a prime sampling point for inclusion in this dioxin investigation.

The rail spur has been used for bringing raw materials into this site. If leaks or spills happened during the offloading of these materials or while a tank car was standing on site, the soils adjacent to the tracks would probably be the major recipient of these spills and should be sampled. Since the rail spur enters the site in the same location as the old truck entrance, a sample taken in this area should be representative of both rail and truck movement of materials.

A primary area where chlorination would have taken place at this facility is in Building 1. Samples collected from soils surrounding this building would be indicative of potential contamination via the runoff routes of any liquid spills. A sample from the northwestern corner of Building 1, in the vicinity of the packaging/repackaging building, is proposed.

Based on discussions with the NJDEP staff, it was agreed that 15 soil samples (not counting duplicates or field blanks) would be collected at this site. A site sampling plan, which identifies the sample locations, is included as Appendix A of this report. Appendix B contains the site specific health and safety plan.

# 4.0 SAMPLE COLLECTION AND ANALYSIS

# 4.1 Summary of Sampling Episode

On May 15, 1985, E.C. Jordan Co. personnel (W. Britton and C. Goodwin) collected 16 surface soil samples (including one duplicate) at the Arsynco site for analysis of 2,3,7,8-TCDD. A representative of the NJDEP (W. Mennel) was present during the sampling. The sampling locations are shown in Figure 3. Samples were split at the request of the site owners. Appendix C contains a copy of the field data sheets. Slides of the sample sites are included in Appendix D.

The samples were collected in accordance with the sampling plan (Appendix A) with the following exceptions. Sample 1-2 was moved to a depressional area between the two drainage swales in the southeastern part of the site. Samples 1-13, 1-15, and 1-16 were also moved slightly to obtain samples in the topographically low areas on the northeast, northwest, and southwest sides of Building 1. Sample 1-17 was relocated to a spot between Building 4 (where packaging occurs) and the railroad spur.

# 4.2 Summary of Results

Samples from Arsynco were initially analyzed by ETC. However, the analytical results were found to be unacceptable by the NJDEP Quality Assurance Office. All of the samples were then sent to Cal-Analytical for re-analysis. Cal-Analytical uses a comparable method for 2,3,7,8-TCDD analysis known as the EPA Invitation for Bid, Contract Laboratory Program, WA84-A002.

The results of the 2,3,7,8-TCDD analysis by Cal-Analytical for Arsynco are shown in Table 1 and Figure 3. The data were validated by the NJDEP. The isomer 2,3,7,8-TCDD was not detected in any of the samples analyzed and the detection limits were consistently below 0.1 ppb.



# RESULTS OF 2,3,7,8-TCDD ANALYSIS ARSYNCO, INC.

Sample Collection Date: May 15, 1985

Sample Analysis Date(s): October 14, 1985

Laboratory:

California Analytical Laboratories, Inc.

West Sacramento, California

Sample Number	Map Reference	2,3,7,8-T Measured	CDD (ppb <sup>1</sup> )	Sample	Type
1-1	1	ND <sup>3</sup>	0.049	Surface	4 .
1-2	2 .	ND	0.020	Surface	soil
1-3	3	ND	0.038	Surface	soil
1-4	4	ND	0.025	Surface	soil
1-5	5	ND	0.026	Surface	soil
1-6	6	ND	0.021	Surface	soil
1-7	7	ND	0.046	Duplicate of	Sample 1-6
1-8	8	ИД	0.034	Surface	soil
1-9	9	ИД	0.015	Surface	soil
1-10	10	ND	0.046	Surface	soil
1-11	11	ND	0.033	Surface	soil
1-12	12	ND	0.033	Surface	soil
1-13	13	ND	0.012	Surface	soil
1-14	None	ND	0.044	Field/equip	ment blank
1-15	15	ND	0.020	Surface	soil
1-16	16	ND	0.033	Surface	soil
1-17	17	ND	0.077	Surface	soil
			•	•	

<sup>&</sup>lt;sup>1</sup> ppb - Parts per billion, i.e., μg/kg of soil or sediment on an "as is" basis

<sup>3</sup> ND - Not detected.

<sup>&</sup>lt;sup>2</sup> DL - Method detection limit which is the concentration at which there is a 99 percent confidence level that the compound is present.

A duplicate sample was taken at sample location 6. The soil collected at this location was thoroughly mixed and then poured alternately into two sample bottles which were then sealed and submitted to the laboratory as a check on the consistency of the laboratory analysis. The analytical results for Samples 1-6 and 1-7 were consistent. Both had no detectable 2,3,7,8-TCDD, with detection limits of 0.021 ppb and 0.046 ppb, respectively.

A combined field/equipment blank was also submitted to the laboratory for analysis. The blank consisted of analyte-free soil supplied by the NJDEP which was poured through a tulip bulb planter into a foil pan and then into an empty sample bottle at the site. The bottle was then sealed and submitted to the laboratory as a check on possible contamination from the sample site, sampling equipment, or sample containers. No 2,3,7,8-TCDD was detected in the field/equipment blank (Sample 1-14).

# 4.3 Assessment of the Need for Further Dioxin Sampling

The dioxin isomer 2,3,7,8-TCDD was not detected in any of the surface soil samples collected at the Arsynco site. These samples were taken from 15 different biased locations on the 9.3 acre site. Based on these results, further sampling for 2,3,7,8-TCDD analysis at the Arsynco site is not recommended at this time.

#### REFERENCES

- 1. Esposito, M.P., T.O. Tiernan, and F.E. Dryden, 1980. Dioxins. U.S. EPA 600/2-80-197, Cincinnati, OH.
- 2. Records on file as of January 31, 1985, NJDEP Division of Waste Management, Hazardous Site Mitigation Administration, 428 East State Street, Trenton, NJ 08625.
- 3. Records on file as of January 31, 1985, NJDEP Division of Waste Management, Bureau of Field Operations, 120 Route 156, Yardville, NJ 08620.
- 4. Records on file as of January 31, 1985, NJDEP Division of Waste

  Management, Bureau of Field Operations, 1259 Route 46E, Parsippany-Troy
  Hills, NJ.
- 5. Records on file as of January 31, 1985, NJDEP Division of Water Resources, 1174 Prospect Street, Trenton, NJ.
- 6. Records on file as of January 31, 1985, NJDEP Office of Science and Research, Industrial Investigation Unit, 436 East State Street, Trenton, NJ.
- 7. Records on file as of January 31, 1985, <u>U.S. EPA Region II Office</u>, Woodbridge Avenue, Edison, NJ.
- 8. Interview on March 28, 1985 with Seymour Mann, President of Aceto Chemical Co. and Wesley Bennett, Manager of Regulatory Affairs for Arsynco, Inc. in Carlstadt, N.J.





File Layed IV

## State of Nem Bersey

## DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

CN 029
TRENTON, NEW JERSEY 08625

JOHN W. GASTON JR., P.E. DIRECTOR DIRK C. HOFMAN, P.E. DEPUTY DIRECTOR

October 17, 1985

Mr. James Dillon, General Manager Arsynco Chemical Company Foot of 13th Street Carlstadt, NJ 07072

Dear Mr. Dillon:

On September 24, 1985, an inspection of the Arsynco Chemical Company (Arsynco) facility in Carlstadt was conducted by representatives of the Division of Water Resources (DWR) in response to a report of a spill by a representative of Arsynco.

During the inspection the following observations were made:

- 1. A 5000 gallon tank containing 20% sodium hydroxide developed a leak at a valve and approximately 3800 gallons were released into the containment area. The containment area failed at several points and seepage was observed outside the dike walls. Arsynco employees neutralized the sodium hydroxide using sulfuric acid and acetic acid and then washed the residue into a ditch which drains into Berry's Creek.
- 2. A precipitate from the reaction of the sodium hydroxide and the acids was observed to have settled in the drainage ditch.



- 3. Several pools of discolored liquids were observed at various locations in the rear yard area of the facility. These pools were results of past spills.
- 4. The ditch drains the rear yard of stormwater runoff as well as all spills.
- 5. A second ditch located in the rear yard of Arsynco was observed receiving discolored seepage from the soil. This ditch also drains into Berry's Creek.

Based from these observations, DWR has determined that a potential exists for surface water and ground water contamination from hazardous substances. Unpermitted discharges to the surface water and ground water are in violation of N.J.S.A. 58:10A-1 et seq., the New Jersey Water Pollution Control Act, and N.J.S.A. 58:10-23.11c et seq., the Spill Compensation and Control Act.

Arsynco is therefore Directed to:

- Contain the discharge of the reaction precipitate from entering Berry's Creek.
- 2. Submit a plan within fourteen (14) days of the receipt of this DIRECTIVE outlining the removal of the reaction precipitate from the ditch, and also a plan for the containment of any future spills in the rear yard to prevent them from entering Berry's Creek a tributary of the Hackensack River.
- 3. Allow access for DWR representatives to conduct soil and water sampling from the rear yard in order to evaluate the extent of potential ground water contamination. Under N.J.A.C. 7:14A-6.15 et seq., Arsynco may be required to obtain a NJPDES permit to discharge to the ground water based on, "activities or past practices which have resulted in an actual or potential discharge of hazardous waste, hazardous waste constituents, or other ground water pollutants onto the land."

- 3 -

Failure to comply with this DIRECTIVE may result in further enforcement action by this office, including the imposition of penalties, pursuant to N.J.S.A. 58:10A-10. Compliance, however, shall not be construed to relieve Arsynco from appropriate penalties for the cited statutory violations.

If you have any questions concerning this DIRECTIVE, please contact Mr. Anthony DeCandia of this office at (201) 645-1200.

Very truly yours,

Thomas B. Harrington

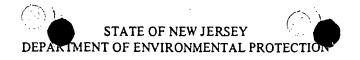
Supervisor, Compliance Monitoring Unit Metro Bureau of Regional Enforcement

E126:G25

cc: Albert Greco

bcc: Marianne Montgomery





#### NOTICE OF AUTHORIZATION



PERMIT NO. NJ0030970

April 15, 1985

June 1, 1985

EXPIRATION DATE March 14, 1989

ISSUED TO
Arsynco, Inc.
P.O. Box 8
Carlstadt, NJ 07072

FOR ACTIVITY/FACILITY AT Foot of 13th Street Carlstadt, NJ

OWNER Aceto Chemical Co. 126-02 Northern Blvd. Flushing, NY 11308

ISSUING DIVISION
Water Resources

TYPE OF PERMIT
NJPDES/SIU Modification

STATUTE(S)
N.J.S.A.
58:10A-1 et seq.

APPLICATION NO. N/A

A PERMIT TO

Discharge industrial process wastewater into the Rutherford, East Rutherford, Carlstadt Joint Meeting Sewage Treatment Plant, in accordance with effluent conditions, monitoring requirements, and other conditions set forth in Parts I, II, III, and IV hereof.

By the Authority of: John W. Gaston Jr., P.E. Director Division of Water Resources

DEP AUTHORIZATION

DEP-008 2/84 THIS NOTICE MUST BE CONSPICUOUSLY DISPLAYED AT THE ACTIVITY/FACILITY SITE.

ATTACHMENT \_\_\_\_





#### AKIMENI OF ENVIRONMENTAL PRO CN 402 Trenton, N.J. 08625



#### PERMIT

The New Jersey Departmen	t of Environmental P	rotection grants this pe	ermit in accordance w	ith your applicatio	n, attachments
accompanying same applica	ation, and applicable	laws and regulations.	This permit is also	subject to the furt	her conditions
and stipulations enumerated	d in the supporting do	ocuments which are agr	eed to by the permitt	ee upon acceptance	of the permit.

and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit.						
Permit No.	Issuance Dat	e	Effective Date		Expiration Da	te
NJ0030970	April 15	, 1985	June 1, 1985		March 14,	1989
Name and Address of Applicant		Location of Activity/Facility		Name an	Name and Address of Owner	
Arsynco, Inc.	,	Foot of 13th S	treet	Aceto	Chemical Co	) <b>.</b>
P.O. Box 8	1	Carlstadt, NJ		126-02	Northern E	Soulevard
Carlstadt, NJ 07072		·		Flushi	ng, NY 1130	08
Issuing Division Water Resources		Type of Permit NJPDES/SIU Mod		Statute(s N.J.S 58:102	•	Application No. N/A

This permit grants permission to:

Discharge industrial process wastewater into the Rutherford, East Rutherford, Carlstadt Joint Meeting Sewage Treatment Plant, in accordance with effluent conditions, monitoring requirements, and other conditions set forth in Parts I, II, III, and IV hereof.

This permit does not include any NJPDES discharge to ground water (DGW) permit required in accordance with N.J.A.C. 7:14-1 et seq. Also, this permit does not constitute a waiver from obtaining a NJPDES-DGW permit as per Section 10.7 of the NJPDES Regulations. The Department reserves the right to modify this DSW permit at any time to include a DGW permit section.

Approved by the Department of Environmental Protection

By the Authority of:

John W. Gaston Jr., P.E.

Director

Division of Water Resources

Arnold Schiffman, Administrator Water Quality Management

The word permit means "approval, certification, registration, etc."

(GENERAL CONDITIONS ARE ON THE REVERSE SIDE.)

Form DEP-007 (8/83)







## State of New Jersey

### **DEPARTMENT OF ENVIRONMENTAL PROTECTION**

DIVISION OF WASTE MANAGEMENT 120 Rt. 156, Yardville, N.J. 08620

DR. MARWAN M. SADAT, P.E. DIRECTOR

JUN 15 1984

LING F. PEREIRA
DEPUTY DIRECTOR

(IN THE MATTER OF )
(ARSYNCO INCORPORATED)

ADMINISTRATIVE ORDER

The following FINDINGS are made and ORDER is issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (Department) and duly delegated to the Assistant Director for Enforcement and Field Operations, Division of Waste Management, under the Solid Waste Management Act, N.J.S.A. 13:1E et seq.

#### **FINDINGS**

- 1) The New Jersey Department of Environmental Protection (hereinafter "the Department") has determined that Arsynco Incorporated (hereinafter "Arsynco") is the operator of a hazardous waste facility (EPA ID #NJD044688935) located at the foot of 13th Street, Carlstadt Borough, Bergen County, New Jersey.
- 2) During inspections of the above stated facility by a Departmental representative on April 12, 1984 and April 19, 1984, the following violations were observed:
  - a. Arsynco failed to notify the Department when Arsynco failed to receive a "Part B" for manifest #NJ0062307 within the alloted 35 day period. This is a violation of N.J.A.C. 7:26-7.4(h)1.
  - b. Arsynco failed to file an Exception Report for the above stated missing "Part B" within the required 45 day period. This is a violation of N.J.A.C. 7:26-7.4(h)2.
  - c. Arsynco handled hazardous waste in such a manner that caused an unauthorized discharge of hazardous waste. This being a violation of N.J.A.C. 7:26-9.2(a)2.
  - d. Arsynco failed to label hazardous waste containers with the date for which accumulation began. This is a violation of N.J.A.C. 7:26-9.3(a)3.





- e. Arsynco failed to obtain a waste analysis plan for waste received from an outside source, specifically Roehr Chemicals, Flushing, New York. This is a violation of N.J.A.C. 7:26-9.4(b)1.
- f. Arsynco failed to have a waste analysis plan as outlined in N.J.A.C. 7:26-9.4(b)2 and therefore is in violation of same.
- g. Arsynco stored hazardous waste in leaking containers and failed to transfer said hazardous waste to a container in good condition. This is a violation of N.J.A.C. 7:26-9.4(d)2.
- h. Arsynco failed to securely close hazardous waste containers. This being a violation of N.J.A.C. 7:26-9.4(d)4i.
- i. Arsynco failed to segregate hazardous waste by waste types. This being a violation of N.J.A.C. 7:26-9.4(d)4iv.
- j. Arsynco failed to label hazardous waste containers and therefore is in violation of N.J.A.C. 7:26-9.4(d)4v.
- k. Arsynco failed to adequately inspect the hazardous waste container storage area and therefore is in violation of N.J.A.C. 7:26-9.4(d)5.
- 1. Arsynco had inadequate site inspection and no written schedule, and therefore is in violation of N.J.A.C. 7:26-9.4(f)1 and N.J.A.C. 7:26-9.4(f)3 respectively.
- m. Arsynco failed to have personnel training as stipulated in N.J.A.C. 7:26-9.4(g) and therefore is in violation of same.
- n. Arsynco failed to have adequate site security as needed for a hazardous waste storage area, and therefore is in violation of N.J.A.C. 7:26-9.4(h).
- o. Arsynco failed to provide adequate aisle space to allow for movement of personnel and equipment in an emergency. This is a violation of N.J.A.C. 7:26-9.6(e).
- p. Arsynco failed to make arrangements with local authorities as stipulated in N.J.A.C. 7:26-9.6(f) and therefore is in violation of same.
- q. Arsynco failed to develop a contingency plan and emergency procedures and therefore is in violation of N.J.A.C. 7:26-9.7 et seq.



- r. Arsynco failed to have a closure plan as stipulated in N.J.A.C. 7:26-9.8(e) and therefore is in violation of same.
- s. Arsynco failed to have a containment system as stipulated in N.J.A.C. 7:26-10.4(b) and therefore is in violation of same.
- t. Arsynco failed to have tank maintenance as stated in N.J.A.C. 7:26-10.5(e)4 and therefore is in violation of same.
- u. Arsynco failed to have a tank inspection program as stipulated in N.J.A.C. 7:26-11.2(c) and therefore is in violation of same.
- 3) The New Jersey Administrative Code, specifically N.J.A.C. 7:26-7.4(h)1, 7:26-7.4(h)2, 7:26-9.2(a)2, 7:26-9.3(a)3, 7:26-9.4(b)1, 7:26-9.4(b)2, 7:26-9.4(d)2, 7:26-9.4(d)4i, 7:26-9.4(d)4iv, 7:26-9.4(d)4v, 7:26-9.4(d)5, 7:26-9.4(f)1, 7:26-9.4(f)3, 7:26-9.4(g), 7:26-9.4(h), 7:26-9.6(e), 7:26-9.6(f), 7:26-9.7 et seq., 7:26-9.8(e), 7:26-10.4(b), 7:26-10.5(e)4, and 7:26-11.2(c) state:

N.J.A.C. 7:26-7.4(h) - Exception reporting requirements are as follows:

- 1. A generator who does not receive a copy of the manifest with the handwritten signature of the owner or operator of the designated facility within 35 days of the date the waste was accepted by the initial hauler must contact the hauler and/or the owner or operator of the designated facility to determine the status of the hazardous waste and the Department at (609) 292-9877 to inform the Department of the situation.
- 2. A generator must submit an Exception Report to the Department if the generator has not received a copy of the manifest with the handwritten signature of the owner or operator of the designated facility within 45 days of the date the waste was accepted by the initial hauler. The Exception Report must include:
  - i. a legible copy of the manifest for which the generator does not have confirmation of delivery; and
  - ii. a letter signed by the generator or the generator's authorized representative explaining the efforts taken to locate the hazardous waste and the results of those efforts.

N.J.A.C. 7:26-9.2(a) - No person shall cause, suffer, allow or permit the acceptance, transfer, storage, processing, treatment, recovery, disposal or other handling of hazardous waste.



- 2. In a manner which causes or may cause an unauthorized discharge of pollutants onto or into the land, surface water, ground water or air of this State.
- N.J.A.C. 7:26-9.3(a) A generator may accumulate hazardous waste on-site without a permit for 90 days or less provided that:
- 3. The date upon which each period of accumulation begins is clearly marked and visible for inspection on each container.
- N.J.A.C. 7:26-9.4(b)1 Before an owner or operator treats, stores, or dispose of any hazardous waste, the owner or operator shall obtain a detailed chemical and physical analysis of a representative sample of the waste.
  - i. At a minimum, this analysis shall contain all the information which must be known to treat, store, or dispose of the waste in accordance with the requirements of this subchapter.
  - ii. The analysis may include data developed under N.J.A.C. 7:26-8.1 et seq. and existing published or documented data on the hazardous waste or on hazardous waste generated from similar processes.
  - iii. The analysis shall be repeated as necessary to insure that it is accurate and up-to-date. At a minimum, the analysis must be repeated when the owner or operator is notified, or knows or should know, that the process or operation generating the hazardous waste has changed.
  - iv. For off site facilities, the analysis shall be repeated when the results of the inspection required in N.J.A.C. 7:26-9.4(b)l.v indicate that the hazardous waste received at the facility does not match the waste designated on the accompanying manifest or shipping paper.
  - v. The owner or operator of an off site facility shall inspect each hazardous waste shipment received at the facility and analyze, unless not required by the approved waste analysis plan, to determine whether it matches the identity of the waste specified on the accompanying manifest or shipping paper.
- N.J.A.C. 7:26-9.4(b)2 The owner or operator must develop and follow a written waste analysis plan which describes the procedures which the owner or operator will perform to comply with N.J.A.C. 7:26-9.4(b)1. The owner or operator must keep this plan at the facility. At a minimum, the plan must specify:
  - i. The parameters for which each hazardous waste stream will be analyzed including constituents listed in



N.J.A.C. 7:26-8.16, and the rationale for the selection of these parameters;

- ii. The test methods which will be used to test for these parameters;
- iii. The sampling method which will be used to obtain a representative sample of the waste to be analyzed;
- iv. The frequency with which the initial analysis of the waste will be reviewed or repeated to ensure that the analysis is accurate and up-to-date;
- v. For off-site facilities, the waste analysis that hazardous waste generators have agreed to supply; and
- vi. Where applicable, the methods which will be used to meet the additional waste analysis requirements for specific waste management methods as specified in N.J.A.C. 7:26-10.1 et seq. and N.J.A.C. 7:26-11.1 et seq.
- vii. Procedures which will be used to identify changes in waste stream characteristics.

N.J.A.C. 7:26-9.4(d)2 - If a container holding hazardous waste is not in good condition, or if it begins to leak, the owner or operator shall transfer the hazardous waste from the container to a container that is in good condition, or manage the waste in some other way that complies with the requirements of this section.

N.J.A.C. 7:26-9.4(d)4 - Management of containers shall conform to the following requirements:

- i. Except during filling or emptying, the container shall be securely closed so that there is no escape of hazardous waste or its vapors;
- iv. Containerized hazardous waste shall be segregated in storage by waste type;
- v. Every container shall be arranged so that its identification label is visible.

N.J.A.C. 7:26-9.4(d)5 - The owner or operator shall inspect areas where containers are stored, at least daily, looking for leaks and for deterioration caused by corrosion or other factors.

N.J.A.C. 7:26-9.4(f)1 - The owner or operator shall inspect the facility for malfunctions and deterioration, operator errors, and discharges which may be causing, or may lead to:



- Discharge of hazardous waste constituents to the environment; or
- ii. A threat to human health.

N.J.A.C. 7:26-9.4(f)3 - The owner or operator shall develop and follow a written schedule for inspecting monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment that are utilized for the prevention, detection, or response to environmental or human health.

- i. The owner or operator shall submit the written inspection schedule as part of the permit application for the facility or sooner if so required by the Department.
- ii. The Department may require modifications to the plan is inadequate to accomplish the purpose of this section.
- iii. The schedule shall be kept at the facility.
- iv. The schedule shall identify the types of problems which are to be looked for during the inspection.
- v. The frequency of inspection may vary for the items on the schedule, however, it shall be based on the rate of possible deterioration of the equipment and the probability of an environmental, or human health incident if the deterioration or malfunction or any operator error goes undetected between inspections. Areas subject to spills, such as loading and unloading areas, shall be inspected daily when in use.
- N.J.A.C. 7:26-9.4(g) Facility personnel shall successfully complete a program of classroom instruction or on-the-job training that teaches them to perform their duties in a way that ensures the facility's compliance with the requirements of this subchapter.
- 1. The owner or operator shall ensure that this program includes all the elements described in the document required under N.J.A.C. 7:26-9.4(g)6iii.
- 2. This program shall be directed by a person trained in hazardous waste management procedures, and must include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed.
- 3. At a minimum, the training program shall be designed to ensure that facility personnel are able to respond effectively to emergencies by familiarizing them with emergency procedures,

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cy equipment, and emergency systems, including, where ble:

Personal safety equipment;

Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;

Key parameters for automatic waste feed cut-off systems;

Communications or alarm systems;

Response to fires or explosions;

Response to ground water contamination incidents; and

Shutdown of operations.

ility personnel shall successfully complete the program d in paragraphs 9.4(g)1-3 within six months after the ve date of this subchapter or six months after the date of imployment or assignment to a facility, or to a new posial facility, whichever is later. Employees hired after ective date of this subchapter must not work in unsuperositions until they have completed the training requiref paragraphs 9.4(g)1-3.

ility personnel shall take part in an annual review of the training required in paragraphs 9.4(g)1-3.

owner or operator shall maintain the following documents ords at the facility:

The job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job;

A written job description for each position listed under subparagraph 9.4(g)6i. This shall be current at all times. This description may be consistent in its degree of specificity with descriptions for other similar positions in the same company location or bargaining unit, but shall include the requisite skill, education, or other qualifications, and duties of employees assigned to each position.

A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position listed under subparagraph 9.4(g)6i.

Records that document that the training or job experience required under paragraphs 9.4(a)1

through 5 has been given to, and completed by, facility personnel.

- 7. Training records on current personnel shall be kept until closure of the facility; training records on former employees shall be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company.
- 8. Semi-annual drills involving all employees and appropriate local authorities shall be conducted to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to N.J.A.C. 7:26-9.7.
  - i. An owner or operator may petition the Department for an exemption from the semi-annual drill requirement.
  - ii. An owner or operator may petition the Department for an exemption from the involvement of some or all local officials in the semi-annual drills provided the specific local officials to be excluded have provided the Department with written approval of the exemption.
- N.J.A.C. 7:26-9.4(h) The owner or operator shall prevent the unknowing entry, and minimize the possibility for the unauthorized entry, of persons or livestock onto the active portion of the facility.
- 1. A facility shall have:
  - A 24 hour surveillance system which continuously monitors and controls entry onto the active portion of the facility; or
  - ii. An artificial or natural barrier, which completely surrounds the active portion of the facility; and a means to control entry, at all times, through the gates or other entrances to the active portion of the facility.
- 2. The requirements of paragraph 9.4(h)1 are satisfied if the hazardous waste storage, treatment or disposal site is located in a facility which itself has a surveillance system, or a barrier and a means to control entry, which complies with the requirements of subparagraph 9.4(h)1i or 9.4(h)1ii.
- 3. The owner or operator shall post a sign with the legend, "Danger Unauthorized Personnel Keep Out", at each entrance to the active portion of a facility, and at other locations, in sufficient numbers to be seen from any approach to this active portion. The legend shall be written in English and in any other language prevalent in the area surrounding the facility and must



be legible from a distance of at least 25 feet (7.6 meters). Existing signs with a legend other than "Danger - Unauthorized Personnel Keep Out" may be used if the legend on the sign indicates that only authorized personnel are allowed to enter the active portion, and that entry onto the active portion can be dangerous.

- N.J.A.C. 7:26-9.6(e) The owner or operator shall maintain aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless aisle space is not needed for any of these purposes.
- N.J.A.C. 7:26-9.6(f) The owner or operator shall make the following arrangements, in addition to the requirements at 9.4(g)8, as appropriate for the type of waste handled at the facility and the potential need for the services of these organizations:
- 1. Arrangements to familiarize police, fire departments, and emergency response teams with the layout of the facility, properties of hazardous waste handled at the facility and associated hazards, places where facility personnel would normally be working, entrances to and roads inside the facility, and possible evacuation routes;
- 2. Where more than one police and fire department might respond to an emergency, agreements designating primary emergency authority to a specific police and a specific fire department, and agreements with any others to provide support to the primary emergency authority;
- 3. Agreements with emergency response contractors, and equipment suppliers;
- 4. Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility; and
- 5. Arrangements to have the local fire department inspect the facility on a regular basis with at least two (2) inspections annually.
- 7:26-9.7 Contingency Plan and Emergency Procedures
- (a) Each owner or operator shall have a contingency plan for the facility. The contingency plan shall be designed to minimize hazards to human health or the environment from fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water.



- (b) The provisions of the plan shall be carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment.
- (c) The contingency plan shall describe the actions facility personnel shall take to comply with paragraphs 9.7(a), (b) and (e) and in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility.
- (d) If the owner or operator has already prepared a Spill Prevention, Control, or Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq., the owner or operator needs only to amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section.
- (e) The plan shall describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services, pursuant to N.J.A.C. 7:26-9.6(f).
- (f) The plan shall list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and this list must be kept up-to-date. Where more than one person is listed, one shall be named as primary emergency coordinator and others shall be listed in the order in which they will assume responsibility as alternates.
- (g) The plan shall include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required. This list shall be kept up-to-date. In addition, the plan shall include the location and a physical description of each item on the list, and a brief outline of its capabilities.
- (h) The plan shall include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary. This plan shall describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires).
- (i) A copy of the contingency plan and all revisions to the plan must be:
- 1. Maintained at the facility; and
- 2. Submitted to all local police departments, fire departments, hospitals, and State and local emergency response teams that may be called upon to provide emergency services.

- (j) The contingency plan shall be revised, and immediately amended, if necessary, whenever:
- 1. Applicable regulations are revised;
- 2. The plan fails in an emergency;
- 3. The facility changes (in its design, construction, operation, maintenance, or other circumstances) in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency;
- 4. The list of emergency coordinators changes; or
- 5. The list of emergency equipment changes.
- (k) At all times, there shall be at least one employee either on the facility premises or on call with the responsibility for coordinating all emergency response measures. This emergency coordinator shall be thoroughly familiar with all aspects of the facility's contingency plan, all operations and activities at the facility, and location and characteristics of waste handled, the location of all records within the facility, and the facility layout. In addition, this person shall have the authority to commit the resources needed to carry out the contingency plan.
- (1) Emergency procedures are as follows:
- 1. Whenever there is an imminent or actual emergency situation, the emergency coordinator (or a designee when the emergency coordinator is on call) shall immediately:
  - i. Identify the character, exact source, amount, and areal extent of any discharged materials;
  - ii. Activate internal facility alarms or communication systems, where applicable, to notify all facility personnel; and
  - iii. Notify appropriate State or local agencies with designated response roles if there help is needed.
- 2. Concurrently, the emergency coordinator shall assess possible hazards to human health or the environment that may result from the discharge, fire, or explosion. This assessment shall consider both direct and indirect effects of the discharge, fire, or explosion.
- 3. If the emergency coordinator determines that the facility has had a discharge, fire, or explosion which could threaten human health, or the environment, outside the facility, the emergency coordinator shall:



- i. Immediately notify appropriate local authorities if an assessment indicates that evacuation of local areas may be advisable. The emergency coordinator shall be available to help appropriate officials decide whether local areas should be evacuated; and
- ii. Immediately notify either the Department at (609) 292-5560 during business hours or (609) 292-7172 at all other times (if a call to the first number is not answered, the second number shall be called); and
- iii. When notifying the Department pursuant to subsection 9.7(e)3ii, report the type of substance and the estimated quantity discharged, if known; the location of the discharge; actions the person reporting the discharge proposes to take to contain, clean up and remove the substance if any and any other information concerning the discharge which the Department may request at the time of notification.
- 4. During an emergency, the emergency coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and discharges do not occur, recur, or spread to other hazardous waste at the facility. These measures must include, where applicable, stopping processes and operations, collecting and containing released waste, and removing or isolating containers.
- 5. If the facility stops operations in response to a fire, explosion, or discharge, the emergency coordinator shall monitor for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, wherever this is appropriate.
- 6. Immediately after an emergency, the emergency coordinator shall provide for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a discharge, fire, or explosion at the facility.
- 7. The emergency coordinator shall insure that, in the affected area(s) of the facility:
  - i. No waste that may be incompatible with the discharged material is treated, stored, or disposed of until cleanup procedures are completed; and
  - ii. All emergency equipment listed in the contingency plan is cleaned and fit for its intended use before operations are resumed.
- 8. The owner or operator shall notify the Department, and appropriate local authorities, that the facility is in compliance with subparagraph 9.7(1)7 before operations are resumed in the affected area(s) of the facility.



- 9. The owner or operator shall note in the operating record the time, date, and details of any incident that requires implementing the contingency plan. Within 15 days after the incident, the owner or operator shall submit a written report on the incident to the Department. The report shall include, but not be limited to:
  - Name, address, and telephone number of the owner or operator;
  - ii. Name, address, and telephone number of the facility;
  - ili. Date, time, and type of incident;
  - iv. Name and quantity of material(s) involved;
  - v. The extent of injuries, if any;
  - vi. An assessment of actual or potential hazards to human health or the environment, where this is applicable;
  - vii. Assessment of the scope and magnitude of the problem;
  - viii. Description of the immediate actions that have been taken and the estimated quantity and disposition of recovered material that resulted from the incident; and
  - ix. Provide implementation schedule for undertaking suggested measures to eliminate the problem.
- N.J.A.C. 7:26-9.8(e) The closure plan shall identify the steps necessary to completely or partially close the facility at any point during its intended operating life. The closure plan shall include at least:

#### 1. A description of:

- How and when the facility will be partially closed, if applicable, and ultimately closed;
- ii. The maximum extend of the operation which will be unclosed during the life of the facility; and
- iii. How the requirements of paragraph 9.8(b) and the applicable closure requirements this section, N.J.A.C. 7:26-10.1 et seq., of N.J.A.C. 7:26-11.1 et seq. (for existing facilities prior to final disposition of permit application) will be met;
- 2. An estimate of the maximum inventory of wastes in storage or in treatment at any given time during the life of the facility;
- 3. A description of the steps needed to decontaminate facility equipment during closure; and



- 4. A schedule for final closure which shall include, as a minimum, the anticipated date when wastes will no longer be received, the date when completion of final closure is anticipated, and intervening milestone dates which will allow tracking of the progress of closure. (For example, the expected date for completing treatment or disposal of waste inventory shall be included, as well as the planned date for storage facilities and treatment processes.)
- N.J.A.C. 7:26-10.4(b) Rules on containment in container storage areas include the following:
- 1. Container storage areas must have a containment system that is capable of collecting and holding spills, leaks, and precipitation. The containment system shall:
  - i. Have a base underlying the containers which is free of cracks or gaps and is sufficiently impervious to contain leaks, spills, and accumulated rainfall until the collected material is detected and removed.

    The base shall have a permeability rating no greater than 10 centimeters per second (cm/sec), in addition to adequate structural integrity to withstand the maximum anticipated stress applied to the base due to activities or structures placed in the containment area. The thickness of the base shall be specified in the permit;
  - ii. Consist of material compatible with the wastes being stored;
  - iii. Be sloped, or the containment system must be otherwise designed and operated to efficiently drain and remove liquids resulting from leaks, spills or precipitation. Containers shall be protected from contact with accumulated liquids; and
  - iv. Have sufficient capacity to contain 10 percent of the volume of all of the containers; or the volume of the largest container whichever is greater; additional capacity shall be provided to compensate for any anticipated normal accumulation of rain water;
- 2. Run-on into the containment system shall be prevented, unless the Department waives this requirement in the permit after determining that the collection system has sufficient excess capacity in addition to that required in N.J.A.C. 7:26-10.4(b)1.iv to accommodate any run-on which might enter the system;
- 3. Accumulated precipitation shall be removed from the sump or collection area in as timely a manner as is necessary to prevent blockage or overflow of the collection system; and



- 4. Spilled or leaked waste shall be removed from the sump or collection area daily.
  - i. If the collected material is a hazardous waste under N.J.A.C. 7:26-8.1 it shall be managed as a hazardous waste in accordance with all applicable requirements of Title 7, Chapter 26 of the New Jersey Administrative Code (Rules of the Bureau of Solid Waste Management).
  - ii. If the collected material is discharged through a point source to water of the State, it is subject to the requirements of NJPDES in N.J.Λ.C. 7:26-7:14Λ-1.1 et seq. (Regulations Concerning the New Jersey Pollutant Discharge Elimination System).
- N.J.A.C. 7:26-10.5(c)4 As required in N.J.A.C. 7:26-9.4(f) the owner or operator shall remedy any leak, crack, or wall thinning in violation of N.J.A.C. 7:26-10.5(h) or equipment or process malfunction in violation of N.J.A.C. 7:26-10.5(c) which is discovered during inspection.
- N.J.A.C. 7:26-11.2(c) The owner or operator of a tank shall inspect, where present:
- 1. Discharge control equipment, at least once each operating day, to ensure that it is in good working order;
- 2. Data gathered from monitoring equipment, at least once each operating day, to ensure that the tank is being operated according to its design;
- 3. The level of waste in the tank, at least once each operating day, to ensure compliance with paragraph 11.2(a)3;
- 4. The construction materials of the tank, at least weekly, to detect corrosion or leaking of fixtures or seams; and
- 5. The construction materials of, and the area immediately surrounding, discharge confinement structures, at least weekly, to detect erosion or obvious signs of leakage.

#### ORDER

NOW, THEREFORE, IT IS HEREBY ORDERED that Arsynco Incorporated, its principals, agents, employees, successors, assigns, tenants, and any receiver or trustee in bankruptcy, (should such an entity be appointed to take control of the facility which is the subject of this Order) shall:

1) Within 15 days of the receipt of this Order submit to the Department the Exception Report for manifest #NJ0062307 as outlined in N.J.A.C. 7:26-7.4(h)2 and immediately cease violations of N.J.A.C. 7:26-7.4(h)1.



- 2) Immediately cease violations of N.J.A.C. 7:26-9.2(a)2 by properly handling all hazardous wastes in such a way as to eliminate any unauthorized discharge of hazardous wastes.
- 3) Immediately label all hazardous waste containers with the date for which accumulation began for each container.
- 4) Immediately cease violations of N.J.A.C. 7:26-9.4(b) and obtaining a waste analysis plan for all waste received from outside sources.
- 5) Within 15 days of receipt of this order develop and implement an adequate waste analysis plan as stated in N.J.A.C. 7:26-9.4(b)2. Within this 15 day time period, this plan is to be submitted to the Department.
- 6) Immediately transfer all leaking hazardous waste containers to containers in good condition, as stated in N.J.A.C. 7:26-9.4(d)2.
- 7) Immediately securely close all hazardous waste containers as stated in N.J.A.C. 7:26-9.4(d)41.
- 8) Immediately segregate hazardous waste by waste types, as stated in N.J.A.C. 7:26-9.4(d)4iv.
- 9) Immediately label hazardous waste containers, as stated in N.J.A.C. 7:26-9.4(d)4v.
- 10) Immediately develop and utilize a written inspection schedule as stated in 9.4(f)3 so as to adequately inspect the facility (N.J.A.C. 7:26-9.4(f)i) and the hazardous waste storage area (N.J.A.C. 7:26-9.4(d)5). This written inspection schedule is to be submitted to the Department within 15 days of the receipt of this Order.
- 11) Within 15 days of receipt of this Order develop and implement an adequate personnel training program as stated in N.J.A.C. 7:26-9.4(g). This training program is to be submitted to the Department within this 15 day period.
- 12) Immediately arrange for and implement adequate site security as stated in N.J.A.C. 7:26-9.4(h). Measures used to provide adequate site security are to be submitted to the Department within 15 days of receipt of this Order.
- 13) Immediately provide adequate aisle space as stated in N.J.A.C. 7:26-9.6(e).
- 14) Within 15 days of receipt of this Order make proper arrangements with local authorities as stipulated in N.J.A.C. 7:26-9.6(f) and submit to the Department in writing within this 15 day period those arrangements which have been arranged.



- 15) Within 15 days of receipt of this Order develop and implement a contingency plan and emergency procedures as stated in N.J.A.C. 7:26-9.7 et seq. This plan is to be submitted to the Department within the 15 day period.
- 16) Within 15 days of receipt of this Order develop an adequate closure plan as stated in N.J.A.C. 7:26-9.8(e), and submit this plan to the Department within the 15 day period.
- 17) Within 30 days of receipt of this Order develop a proper containment system as stated in N.J.A.C. 7:26-10.4(b). Prior to the installation of this containment system the engineering designs are to be submitted to the Department for approval. The Department contact in this instance is:

Frank Coolick Hazardous Waste Engineering Division of Waste Management 32 East Hanover Street Trenton, NJ 08625 (609) 292-9880

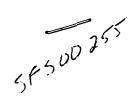
- 18) Immediately develop and implement a proper tank maintenance program as stated in N.J.A.C. 7:26-10.5 and submit this program to the Department within 15 days of receipt of this Order.
- 19) Within 15 days of receipt of this Order develop and implement a proper tank inspection program as stated in N.J.A.C. 7:26-11.2(c). Submit this program to the Department within the 15 day period.
- 20) For those paragraphs which do not require submittal to the Department, copies of prepared plans or programs, Arsynco will submit to the Department for those paragraphs, specifically paragraphs 2, 3, 4, 6, 7, 8, 9, and 13 of the Order section, a statement of compliance for those actions cited in said paragraphs.
- 21) All documentation that is to be submitted to the Department is to be sent to:

William Nehls Bureau of Compliance and Enforcement Division of Waste Management 120 Route 156 Yardville, NJ 08620

BE ON NOTICE that the maximum civil penalty for violations of the Solid Waste Management Act on an ORDER issued pursuant thereto is \$25,000 per day.

Joseph A. Rogalski Assistant Director

F01:F016:1mc





## State of New Jersey

# DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WASTE MANAGEMENT

120 Rt. 156, Yardville, N.J. 08620

DR. MARWAN M. SADAT, P.E. DIRECTOR LINO F. PEREIRA DEPUTY DIRECTOR

OCT 1 0 1984

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

NOTICE OF VIOLATION AND OFFER OF SETTLEMENT

DWM Case #84-04-12-09N

Arsynco Incorporated c/o Seymour Mann, President P.O. Box 8 Foot of 13th Street Carlstadt, NJ

Dear Mr. Mann:

On or about April 12, 1984, hazardous substances (including but not limited to xylene and toluene) were discharged at Arsynco Incorporated, Block 91, Lot 1, Foot of 13th Street, County of Bergen, onto the ground from which it might flow or drain into the waters of the State of New Jersey.

The incident summarized above was investigated by members of the Division of Waste Management, who determined that the following provisions of the Spill Compensation and Control Act and regulations promulgated thereunder were violated:

N.J.S.A. 58:10-23.11c

Discharging Hazardous Substances

N.J.S.A. 58:10-23.11e

Failure to Immediately Notify the Department of the Discharge [See N.J.A.C. 7:1E-2.1(a)]

The above cited violations carry maximum statutory civil penalties of \$25,000 per day for each violation.

ATTACHMENT 5

corpora

accordance with the recommendations of the Department of Environsecondance with the recommendations of the Department of Environntal Protection, and Jursuant to the authority vested in me as
admin strator of the New Jersey Spill Compensation and Control Fund by
N.J. A. 58:10-23.11c I am amenable to compromise and settle these
claims for penalties for the sum of \$2,375.00.

Should you decide to settle this matter, payment must be made within fifteen (15) days of your receipt of this letter. Payment must be sent to the Administrator, New Jersey Spill Compensation Fund, Department of Treasury, One West State Street, CN 620, Trenton, New Jersey 08625. Only checks or money orders drawn to the order of "New Jersey Spill Compensation and Control Fund" will be accepted. Your cancelled check or money order will serve as your receipt.

Should you decide not to accept this settlement offer or fail to forward payment within fifteen (15: days of receipt of this letter, this offer is rescinded, and this matter will be referred to the Office of the Attorney General with instructions to initiate a legal action for the maximum allowable penalty.

Acceptance of this settlement offer will satis'y your liability for civil penalties in connection with the above cited violations but will not relieve you of any other responsibility or obligation under the law, including the responsibility to pay for any damages which may have been caused by the discharge.

If you wish to make any inquiries or discuss this settlement offer, you may contact Rai Belonzi, Bureau of Compliance and Enforcement, Division of Waste Management, at 120 Route 156, Yardville, New Jersey 08620 or at (609) 292-5560.

Very truly yours,

Administrator,

New Jersey Spill Compensation and Control Fund

Recommendation Approved By:

Jøsegn A. Rogaløki Assistant Director

Division of Waste Management

YN.J.D.E.P.





## State of New Jersey

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT 120 Rt. 156, Yardville, N.J. 08620

DR. MARWAN M. SADAT, P.E. DIRECTOR

LING F. PEREIRA

JUN 15 1984

Seymour Mann Arsynco Incorporated P.O. Box 8 Foot of 13th Street Carlstadt, NJ 07072

RE: PENALTY SETTLEMENT OFFER

Dear Mr. Mann:

Attached is an Administrative Order concerning a violation of the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq. and regulations promulgated thereunder, specifically N.J.A.C. 7:26-7.4(h)1, 7.4(h)2, 9.2(a)2, 9.3(a)3, 9.4(b)1, 9.4(b)2, 9.4(d)2, 9.4(d)4i, 9.4(d)4iv, 9.4(d)4v, 9.4(d)5, 9.4(f)1, 9.4(f)3, 9.4(g), 9.4(h), 9.6(e), 9.6(f), 9.7 et seq., 9.8(e), 10.4(b), 10.5(e)4 and 11.2(c).

Pursuant to the terms of the Administrative Order, the violations must be corrected and the rules and regulations of this Department must be complied with by the specified date.

In addition, a penalty settlement offer of \$6,250 will be held open until JUL 0 1 1984 to allow for an amicable resolution of this statutory claim for the referenced violation. Be advised that N.J.S.A. 13:1E-9c provides for a maximum civil penalty of \$25,000 per day for violations of this nature.

In the event of non-compliance with the Administrative Order and/or non-acceptance of this penalty settlement offer, this matter will be referred to the Office of the Attorney General for the initiation of litigation to enforce the Order and seek the full penalties allowed by law.

Should you wish to discuss the specifics for acceptable compliance with these directives, contact William Nehls at (609) 292-0967.

Arsynco Incorporated Penalty Settlement Offer Page 2

Be advised that such discussion will not automatically delay or otherwise extend the deadline for compliance with the Administrative Order.

Very truly yours,

Joseph A Rogalski Assistant Director

FO1:FO16:kas Attachment



## State of New Jersen

### DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT 120 Rt. 156, Yardville, N.J. 08620

JACK STANTON DIRECTOR LINO F. PEREIRA DEPUTY DIRECTOR

AUS 0.9 1983

Arsynco, Inc.
Wesley Bennett
P.O. Box 8
Carlstadt, New Jersey 08625

RE: NOTICE OF VIOLATION AND PENALTY SETTLEMENT OFFER FAILURE TO ESTABLISH FINANCIAL ASSURANCE FOR CLOSURE AND POST-CLOSURE AND TO DEMONSTRATE FINANCIAL RESPONSIBILITY FOR CLAIMS EPA I.D. #NJD044688935

Dear Mr. Bennett:

Pursuant to the provisions of New Jersey Solid Waste Management Act, N.J.S.A. 13:1E-1, et seq., the Department of Environmental Protection has determined by examination of our files that you violated N.J.A.C. 7:26-9.10(e) and 9.11(c) in that you have failed to establish and/or submit to the Department financial assurance for closure and post-closure of the facility, and N.J.A.C. 7:26-9.13 in that you have failed to demonstrate financial responsibility for claims arising from the operations of your facility for sudden or non-sudden and accidental occurrences that cause injury to persons or property.

NOW, THEREFORE, YOU ARE HEREBY NOTIFIED that your facility shall submit the required documents within thirty (30) days of receipt of this Notice to: Frank Coolick, Bureau of Hazardous Waste Engineering: 32 East Hanover Street, Trenton, New Jersey 08625.

Further, N.J.S.A. 13:1E-9c provides for maximum civil penalties of \$25,000 per day for violations of this nature. In accordance with N.J.S.A. 13.1E-9d, the Department is amenable to compromise and service the frequency claim for penalties for the aforementioned violations for the sum of \$2,000.

Should you decide to accept this Penalty Settlement Offer, payment must be made within thirty (30) days of your receipt of this letter. Only checks or money orders drawn to the New Jersey Department of Environmental Protection will be accepted.

Should you decide not to accept this Penalty Settlement Offer or fail to forward payment within thirty (30) days of receipt of this letter, this offer is rescinded and this matter will be referred to the Office of the Attorney General for the initiation of litigation seeking the full penalties allowed by law.

Acceptance of this Penalty Settlement Offer does not relieve you from immediately complying with the sections of the New Jersey Administrative Code cited above. Each day the violation continues shall be considered a separate violation subject to penalties of up to \$25,000 per day.

If you have questions regarding this Notice of Violation and Penalty Settlement Offer, please call the Bureau of Compliance and Enforcement at (609) 292-0967. If you have questions regarding the documents to be submitted, please call the Bureau of Hazardous Waste Engineering at (609) 292-9880.

Date: Chapet 8, 1983

Joseph A. Rogalski Assistant/Director

DJS:kas

Name of Facility - Arsynco Inc.
RCRA ID= - NODO44688935
Date of Inspection - 9-17-81
Type of Inspection: Generator
Name of EPA/State Inspector

# ( Iannuzzi

Transporter

TSD

Findings of Inspection: manifests not frequent type (all NJ forms used)

Violations:

265.78 - no written op. records.

263.30 - 11 leaking.

265.170 - leaking containers funlabeled etc.

261.436) db - no gen reciept on exception reports.

Sent Waste to Valumet, NJ. which is not registered in RCRA (non-notifier).

265.16 - No written doc. Person train.

265.18 - No inspect. schedule.

265.15 - inadequate conting, plan.

Action(s) Takerviate conting, plan.

vill lefer state violations, use of improper manifests, not sending proper legistration, skillping waste illed facility, accepting waste to without

Action(s) Recommended:

Issue complaint for containers storage proplems and marifest use,

ATTACHMENT 1

## RCRA GENERATOR INSPECTION FORM

		NAME: ynco Inc.	EPA I.D. NUMBER: // JD044688935			
COMP	ANY	ADDRESS: of 13th street. Carlstadt, NJ.			•	
COMP		CONTACT OR OFFICIAL:	INSPECTOR'S NAME: Alphonse Iannuzzi			
TITL	E: Fty	Engines is	$\frac{\text{BRANCH/ORGANIZATION:}}{\text{NJDE }\rho}$			
	K IF	FACILITY IS ALSO A TSD	DATE OF INSPECTION:	YES	<u>100</u>	<u>K2VO</u>
(1)		there reason to believe that the faci- ste on site?	lity has hazardous	X	-	
	a.	If yes, what leads you to believe it Check appropriate box:	is hazardous waste?		٠	
	Ø	Company admits that its waste is haze inspection.	ardous during the			
	X	Company admitted the waste is hazardonotification and/or Part A Permit Ap				
		The waste material is listed in the hazardous waste from a nonspecific s			· (+)	
		The waste material is listed in the hazardous waste from a specific sour				
		The material or product is listed in discarded commercial chemical produc	the regulations as-a t (§261.33)	10007	^	
		EPA testing has shown characteristic corrosivity, reactivity or extractio or has revealed hazardous constituen analysis report)	n procedure toxicity,			
		Company is unsure but there is reaso materials are hazardous. (Explain)	n to believe that wast	е		

	YES	<u>004</u>	DON'T
			·
	es cla		
en-	e mix hlorid	ture e pro	Juc+
†41	comp		
Y	eurs,		
		1/_	
	X		***************************************
ve			

	YES NO KIN	<u> </u>
	b. Is there reason to believe that there are hazardous wastes on-site which the company claims are merely products or raw materials?	_
	Please explain: Some drums that are in poor condition, facilities claims will be used in fature (see comments),	1
from ir. Bennet	3) do drums (5594/lon) off->pec trimellitic acid chloride production. Describe the activities that result in the generation	-
	of hazardous waste.  1) distillation process for froduct manufacturing  2) recovered solvent from processes (is burned in companies to	, ا , ه
(2) The drums	Is hazardous waste stored on site?  on Site Since Nov. 19.  a. What is the longest period that it has been accumulated?	
	but is not certain (houser waste 1/1) trichloraethane has been on be. Is the date when drums were placed in storage marked on several years)x each drum?	s
	C	
(3)	Has hazardous waste been shipped from this facility since November 19, 1980?	
	a. If "yes," approximately how many shipments were made?	
(4)	Approximately how many hazardous waste shipments off site have been made since November 19, 1980?	
	a. Does it appear from the available information that there is $\lambda$ a manifest copy available for each hazardous waste shipment that has been made?	

b. If "no" or "don't know," please elaborate.

				_	
			YES	<u>NO</u>	KNOW TOWN
		Does each manifest (or a representative sample) have the following information?  (**) 45ed Old NJ, manifests for shipments in a manifest document number see attached copies.	19 pg <u>X</u>		<u> </u>
		<ul> <li>the generator's name, mailing address, telephone number, and EPA identification number</li> </ul>	X		
		- the name, and EPA identification number of each transporter A-93/9/6/19/81)		X	
		- the name, address and EPA identification number of the designated facility and an alternate facility, if any: $H - 9 3/9/9 (9/9/9)$		<u>+</u>	
		- a description of the wastes (DOT)	<del></del>	<u>x</u>	
•	•	<ul> <li>the total quantity of each hazardous waste by units of weight or volume, and the type and number of con- tainers as loaded into or onto the transport vehicle</li> </ul>	<u>x</u>		
(5)	and Wer of	- a certification that the materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation under regulations of the Department of Transportation and the EPA usel all No manifest forms when EPA affrond forms should have been used did not send in No. Administration copies for see there any hazardous wastes stored on site at the time the inspection?		<u>X</u> +s.	
	a.	If "yes," do they appear properly packaged (if in containers) or, if in tanks, are the tanks secure?		<u>x</u>	<del></del>
	b.	If not properly packaged or in secure tanks, please explain.	-		
	c.	Are containers clearly marked and labelled?		X	
	à.	Do any containers appear to be leaking?	$\frac{\mathcal{X}}{\mathcal{X}}$		
	e.	If "yes," approximately how many?			

appear.

## GENERATOR INSPECTION CHECKLIST

		YES	NO	<u>A\N</u>
7:26-8.5	Hazardous waste determination			
•	(a) Did the generator test its waste to determine whether it is hazardous?	<u></u>	<u></u>	
	Is the waste hazardous?	<u>رن</u>		<del></del>
7:26-8.5(b)2	Is the generator determining that its waste exhibits a hazardous waste characteristic(s) based on its knowledge of the material(s) or processes used?	<u>~</u>		
	Has hazardous waste been shipped off site since November 19, 1980?	رن		:
Color of the state	If yes, how many shipments, off site, have been made and describe the approximate size of an average shipment made on a monthly basis. If facility is a small quantity generator, please explain.  \[ 1984 - none \] \[ 1987 - none \] \[ 1987 - one shipment (60 drum 9 solid) \]	.)		
7:26-7.4(a)1	Does the generator have an EPA ID #?			
7:26-7.4(a)4	Does each manifest have the following information? Please circle the elements missing and obtain a copy of the incomplete manifests. (List those manifests that are deficient)	<u>.</u>		
7:26-7.4(a)4i	The generator's name, address and phone number?	<u></u>	/ 	
7:26-7.4(a)4ii	The generator's EPA ID number?			
7:26-7.4(a)4iii	The transporter(s) name, address and phone number? no Transporter with registration handar's			/_
7:26-7.4(a)4iv	The transporter(s) EPA ID number?	ميا_		
7:26-7.4(a)4v	The name, address and phone number of the designated TSD facility?	<u>~</u>	/	
_7:26-7.4(a)4vi	The TSDF's EPA ID number?	V		
7:26-7.4(a)4vii	The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same?	<u>v</u>	/ ·	

					·
. •		-2-			
				YES NO N	<u>/A</u>
	7:26-7.4(a)4viii	Special handling instructions and information required on the form to by the generator?		<u> </u>	
•	7:26-7.4(a)5	Before allowing the manifested was the generator's property, did the			
	7:26-7.4(a)5i	Sign the manifest certification by	y hand?	<u> </u>	<del></del>
	7:26-7.4(a)5ii	Obtain the handwritten signature of initial transporter and date of acon the manifest?		<u></u>	
	7:26-7.4(a)5iii	Retain one copy and forward one costate of origin and one copy to the destination?		<u> </u>	
	7:26-7.4(a)5iv	Give remaining copies of the mani- the transporter?	fest form to	<u>-</u>	<u>.</u>
	7:26-7.4(f)1	Has the generator maintained faci for three (3) years? (Manife exception report(s) and waste ana	st(s),		·
	7:26-7.4(h)1	Has the generator received signed portion B (from the TSD facility) manifests for waste shipped off s than 35 days ago?	of all		
	7:26-7.4(h)2	If not:			
		1. Did the generator contact the the owner or operator of the NJDEP at 609-292-9877 to info of the situation, and	TSDF and the		
		2. Have exception reports been s the Department covering any o ments made more than 45 days	f these ship-		
		Before transporting or offering h for transportation off site, does			
-	7:26-7.2(a)	Conspicuously lable appropriate mon all hazardous waste containers intended for shipment? now were shipment.	that are ,	· ·	
	-7:26-7.2(b)	Insure that all containers used thazardous waste off site are in with applicable DOT regulations (171 - 49 CFR 179)?	onformance		

Y	ES	NO	N/A

7:26-9.3	Accumulation time	
	How is waste accumulated on site?	:
	/T/ Containers	
•	Tanks (complete HWMF checklist)	
	Aboveground / Below ground	
	<pre> Surface impoundments (complete HWMF checklist</pre>	
	/ Piles (complete HWMF checklist)	
7:26-9.3(a)3	Is each container clearly dated with each period of accumulation so as to be visible for inspection? containers of speed suitoners.	
7:26-9.3(a)1	Is waste accumulated for more than 90 days?	-
= = = > ( = / =		_

STOP HERE IF THE HAZARDOUS WASTE MANAGEMENT FACILITY (TSD) CHECKLIST IS FILLED OUT.

If yes, complete HWMF checklist.

no unleignond tents

# HAZARDOUS WASTE FACILITY STANDARDS

	·				
		YES	NO	N/A	
7:26-9.4(b)	Waste Analysis			•	
7:26-9.4(b)1i	Is there a detailed chemical and physical analysis of a representative sample of the waste(s) or each waste? (At a minimum, this analysis most contain all the information necessary for proper treatment, storage or disposal of the waste.)	<u></u>	_		
7:26-9.4(b)liii	Does the character of the waste handled at the facility change from day to day, week to week. etc., thus requiring frequent testing? Check only one: Waste characteristics vary All waste(s) are basically the same Company treats all waste(s) as hazardous	<u> </u>	<u></u>	_	
7:26-9.4(b)2	Is there a written waste analysis plan at the facility?	<u></u>			
	Does it contain:	•			
7:26-9.4(2)i	Parameters for which each hazardous waste stream will be analyzed including constituents listed in NJAC 7:26-8.16 and the rational for the selection of these parameters? The formularum waste stream.	<del></del>	<u>~</u>	/_	
7:26-9.4(b)211 · ·	The test methods which will be used to test for these parameters?	<u>~</u>	/ 		
7:26-9.4(b)2iii	The sampling method which will be used to obtain a representative sample of the waste to be analyzed?	$\underline{\nu}$	/_		
7:26-9.4(b)2iv	The frequency with which the initial analysis of the waste will be reviewed on repeated to ensure that the analysis is accurate and upto-date?	v	/		
7:26-9.4(b)2v	For off-site facilities, the waste analysis that hazardous waste generators have agreed to supply?			· <u> </u>	
7:26-9.4(b)2vii	Procedures which will be used to identify changes in waste stream characteristics.	*** =		~	/
7:26-9.4(b)3	Did the owner or operator submit the waste analysis plan to the Department?			<del></del> -	
	If yes, when was the plan submitted?				

		YES	110	N/A
	Does hazardous waste come to this facility from an outside source? (e.g., another generator)	•	<u>_</u>	/_
	If yes, list the name(s) of generators.	•		
7:26-9.4(b)4	If waste comes from an outside source, are there procedures in the waste analysis plan to insure that waste received conforms to the accompanying manifest?			
	Does the plan describe:			
7:26-9.4(b)4i	The procedures which will be used to determine the identity of each shipment of waste managed at the facility?			<u>.</u>
7:26-9.4(b)4ii	The sampling method which will be used to obtain a representative sample of the waste to be identified, if the identification method includes sampling?			
7:7:26-9.4(h)	Security			
	Does the facility have:			
7:26-9.4(h)1i	A 24 hour surveillance system which continuous monitors and controls entry onto the active portion of the facility? specals 24/hr day		/	
7:26-9.4(n)1ii	An artificial or natural barrier, which completely surrounds the active portion of the facility: and a means to control entry, at all times, through the gates or other entrance to the active portion of the facility?		/	
7:26-9.4(h)3	Are there "Danger-Unauthorized Personnel Keep Out" signs posted at each entrance to the facility?	⁄_	/ <u></u>	· <del></del> -
· · · · · · · .	If no, explain what measures are taken for security.			•

		YES	NO	N/A
7:26-9.4(f)	General Inspection Requirements	•		
7:26-9.4(f)1	Does the owner or operator inspect the facility for malfunctions and deterioration, operator errors and discharges which may be causing, or may lead to:	·	*120°	
7:26-9.4(f)li	Discharge of hazardous waste constituents to the environment?	_	/ 	·····
7:26-9.4(f)1ii	A threat to human health?			
7:26-9.4(f)3	Has the owner or operator developed, and does the owner or operator follow a written schedule for inspecting monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment that are utilized for the prevention, detection or response to environmental or human health?			
7:26-9.4(f)3i	Did the owner or operator submit the written inspection schedule to the department?	<u>~</u>	<u></u>	
	If yes, when was it submitted?			
7:26-9.4(f)3iii	Is the written inspection schedule kept at the facility?	<u>~</u>		
7:26-9.4(f)3iv	Does the schedule identify the types of problems to be looked for during the inspection?	V		
7:26-9.4(f)3v	Does the schedule include the frequency of inspection, based upon the rate of possible deterioration of the equipment and the probability of an environmental, or human health incident if the deterioration or malfunctions or any operator error goes undetected between inspections?	~	/_	
7:26-9.4(f)5	Is there evidence that problems reported in the inspection log have been remedied?	<u>V</u>	/	
7:25-9.4(f)6	Does the owner/operator record inspections in a log?	·	_	
	·		/	

		YES	NO	N/A
	Does the records include the date, and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial action?		<u>U</u>	/
7:26-9.4(g)	Personnel training			
•	Have facility personnel successfully completed a program of classroom instruction or on-the-jol training within 6 months of having been employed? OSHA fram J. North Res. worth	۵	ر <u>پ</u>	/_
7:26-9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed?	-	¥	/
7:26-9.4(g)5	If yes, have facility personnel taken part in an annual review of training?	-	<u>t</u>	/_
	Is there written documentation of the following:		<u></u>	/
7:26-9.4(g)6i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?		V	
7:26-9.4(g)6ii	A written job description for each position related to hazardous waste management?		V	/
7:26-9.4(g)6iii	A written description of the type and amount of both introductory and continuing training given to personnel in jobs related to hazardous waste management?		<u>~</u>	/_
7:26-9.4(g)6iv	Documentation of actual training or experience received by personnel?	•	<u> </u>	/
7:26-9.4(g)7	Are training records kept on all current employees until closure of the facility and training reocrds kept on former employees for 3 years from their last date of employment?			
7:26-9.4(g)8	Are <u>semi-annual</u> drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7:26-9.7?		<u>v</u>	· /_
•	n' process y anarysing (chance Volum	Tinn	P.	V.

	<u>Y</u> E	<u>ES</u>	NO	N/A	
7:26-9.6	Preparedness and prevention	٠	•	•	i i
	Does the facility comply with preparedness and prevention requirements including maintaining:		<u> </u>		
7:26-9.6(b)1	An internal communications or alarm system? $\nu$			·	
7:26-9.6(b)2	A telephone or other device to summon emergency assistance from local authorities?		/ 		
7:26-9.6(5)3	Portable fire equipment, spill control equipment, and decontamination equipment?	<u>ٺ</u>	/		
7:26-9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?	<u>_</u>	_		
7:26-9.6(c)	Is equipment tested and maintained?			<del></del> .	
7:26-9.6(d)1	Is there immediate access to communications or alarm systems during handling of hazard- ous waste? work in pairs, it least	<u>'</u>	/		P
7:26-9.6(e)	Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?		/_		
	If no, please explain.				
·					
	In your opinion, do the types of waste on site require all of the above procedures, or are some not required?	<u>\</u>	/_		
	Some unknown water onsite Flammetele ve (secycle); corrosine waste me homolles	-e_t	<u>-</u> 95 an	e lla	ndled
7:26-9.6(f)	Has the facility made the following arrangements as appropriate for tye type of waste handled on site?	•			
7:26-9.6(f)1	Familiarize police, fire departments and emergency response teams with the layout of the facility and nazardous waste handled?	<u></u>			

YES

NO

N/A

	the state of the s
7:26-9.6(f)2	Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authority to a specific police or fire department, and agreements with any others to provide support to the primary emergency authority?
7:26-9.5(f)3	Agreements with emergency response contractors, and equipment suppliers? Waste Commission, The (verland)
7:26-9.6(f)4	Arrangements to <u>familiarize</u> local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility?
7:26-9.6(f)5	Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually?  They look impact are per year
7:26-9.7	Contingency plan and emergency procedures (made v 12/7/8 4)
7:26-9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions. hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?
7?26-9.7(b)	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment?
7:26-9.7(c)	Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility?
7:26-9.7(d)	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention. Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.? reeds to be updated.
	If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?

•			· · · · · · · · · · · · · · · · · · ·
•	-7-		
7:26-9.7(e)	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services?		
7:26-9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up-to-date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall assume responsibility as alternates.		-nanadan
7:26-9.7(g)	Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required? Is the list kept up-to-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?	: 	•
7:26-9.7(h)	Does the plan include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)?	<u>/</u>	
7:26-9.7(i)	Is a copy of the contingency plan and all revisions to the plan:		
	1. Maintained at the facility; and	<u>~</u> _	
	2. Has the contingency plan been submitted to local authorities (police, fire denart- ments, emergency response teams)?		
7:26-9.8	Closure plan	<i>,</i>	
7:26-9.8(c)	Does the facility have a written closure plan?		
÷ .	Does the owner/operator keep a written copy of the closure plan and all revisions to the plan at the facility?	<u>/</u> -	• .
ont datid	alone plan- closure plan- al ni 1985. ( one was wantly packer al ni 1985. ( only the waste store	ed and it	addi:2.,

		:	,				VEC	NO	N / A	l.
		<b>y</b> .				•	YES	NO	N/P	<u>\</u>
7:26-9.8(e)1i	be ul	partial: timately	ly close closed?	d (if ap	plicable) Taddiess	20 Count	40000	1	·	-
7:26-9.8(e)1ii		e maximum open	farm w n extent during	of the the lif	operation e of the	white polints which will facility?				
7:26-9.8(e)2	in		or in t	reatment	at any g	y of wastes iven time		<u>1</u>	/ · —	
7:26-9.8(e)3					needed t uring clo	o decontam- sure?			_	
7:26-9.8(e)4	an lo of ve	ticipated nger be in final c ning mile	d date w received losure i estone d	then the the da s antici lates whi	re includ wastes wi te when c pated, an ch will a	ll no completion d inter-	<u></u>	· /		· · · · · · · · · · · · · · · · · · ·
	Po	st Closu	re Plan							
7:26-9.9(g)		es the f				ost-closure			_	<u>i</u>
	If	yes, do	es the p	olan:						
7:26-9.9(i)	on		losure a		nich will requency	be carried of these				
7:26-9.9(i)1	w a		toring a	activitie	es and fre	ed ground- equencies			_	
,7:26-9.9(i)2	te	enance ac	tivities	$\epsilon$ , and $fr$	the planne requency a regional insure		ng:		-	_/
7:26-9.9(i)2i .					and final res where	cover or applicable?	·		_	
7:26-9.9(i)2ii		escribe t onitoring			the facil	ity			-	
7:26-9.9(i)3	of d	a perso	n or of	fice to	and phonocontact al the post-	bout the				
						tten estima e facility?	te		•	
		-								

If yes, what is it?

Please circle all appropriate activities and answer questions on indicated pages for all activities circled.

		•				•		
Storage		Treatment		Dis	oosal			
Container - pg. 9		Tank - pg. 12		Landfil	1 - pg	g. 18		
Tank, above ground -	- pg. 12)	Surface Impoundmen	nts - pg. 15					
Tank, below ground -	- pg. 12	Incineration - pg	. 20	Surface	Impor	undment	s - pg.	. 15
Surface Impoundments	s - pg. 15	Thermal Treatment	- pg. 23	Other			<del></del>	
Waste Piles - pg. 17	7							
Other		Chemical, Physica Biological Treatm						
		Other					•	
			·				٠	
					<u>YES</u>	NO	N/A	
7:26-9.4(d)	Container	<u>'s</u>						
	Describe	e of containers are the size, type, qu s (e.g., 12 fifty-f acetone)	antity and na	eture				
7:26-10.4(b)	Is there leaks and	a containment syst precipitation? 7	em for spills	s, love.			<u>_</u>	/
•	Is yes, o	describe the contai	nment system	•				:
•								
7:26-9.4(d)1i	proof cor weld, hir sufficier side and impairmer	ontainers appear to istruction of adequage age and seam streng it material strengt bottom shock, while it of the container nazardous waste?	uate wall thingth, and of th to withsta le filled, wi	ckness. nd thout		<u> </u>	· / _	

If no, explain.

		YES	<u>NO</u>	N/A
7:26-9.4(d)1ii	Are the lids, caps, hinges or other closure devices of sufficient strength that when closed, they will withstand dropping, overturning or other shock without impairment of the container's ability to contain hazardous waste?		<u>~</u>	<del>-</del> ,
	If no, explain. Some very corroled dum, some vives on top- (open head ty)	_ba	dem	m).
7:26-9.4(d)2	Do the containers appear to be in good condition, not in danger of leaking?			/
7:26-9.4(d)2	If not, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.  2-55 gol drum with hor with sticker in strongs area next to purking bot (The oddnessed in the closure plan). Containers also baking (argue ail).	(ur u +	he stor	, residu aga na laz na
7:26-9.4(d)4i	Are all containers securely closed, except those in use, so that there is no escape of hazardous waste or its vapors?  If no, explain.  Some home love coners (rings)	<del></del> -	<u>'</u>	_
7:26-9.4(d)4iii	Do containers appear to be properly opened. handled or stored in a manner which will minimize the risk of the container rupturing or leaking?		مـــــــــــــــــــــــــــــــــــــ	/_
	If no, explain. Some are very (can actually see contents)	em	odea	<b>f</b>
7:26-9.4(d)iv	Are containerized hazardous wastes segregated in storage by waste type?	✓ —	/ 	
7:26-9.4(d)v	Are containerized hazardous wastes arranged so that their identification label is visible?	·	<u>ن</u>	//
7:26-9.4(d)3	.Are hazardous wastes stored in containers made of compatible materials?		V	/

		YES .	CM	<u>N/A</u>
7:26-9.4(d)5	Does the cwner/operator inspect the container storage area at least daily, looking for leaks and for deterioration caused by corrosion or other factors?		<u>/</u>	
7:26-9.4(d)6	Are containers holding ignitable and reactive waste located at least 50 feet (15 meters) away from the facility's property line?	¥		
7:26-9.4(d)7i	Are incompatible wastes, or incompatible wastes and materials placed in the same container?		<u> </u>	
	If yes, explain.  1 x 55 gal dum of waste corres "ate" through a dum (picture	nie In	sole	D D
7:26-9.4(d)7ii	Are hazardous wastes placed in unwashed containers that previously held incompatible wastes?			
	If yes, explain.			
7:26-9.4(a)7iii	Are containers holding hazardous waste that are incompatible with any waste or other materials stored nearby in other containers, open tanks, or surface impoundments separated from the other materials or protected from them by means of a dike, berm, wall or other device? Dank know, Same waste are			
7:26-9:4(e)li	mu dentified- Are ignitable, reactive or incompatible wastes protected from sources of ignition or reaction? But some are undentified  If no, explain.	<u>v</u>	lose	 -:
- ·				•
7:26-9.4(e)1ii	Does the owner/operator confine smoking and op flames to specially designated locations when ignitable or reactive wastes are being handled		/_	

If no, explain.

		152	NO	N/A	
7:26-9.4(e)liii	Does the owner/operator conspicuously place "No Smoking" signs whenever there is a hazard from ignitable or reactive waste?			,	
	Is the treatment, storage or disposal of ignitable or reactive waste, and the mixture of incompatible wastes and materials, conducte so that it does not:	ed		:	:
7:26-9.4(e)2i	Generate extreme heat or pressure, fire or explosion, or violent reaction?	کیا			- - - - - -
7:26-9.4(e)2ii	Produce uncontrolled toxic mists, fumes, dusts or gases in sufficient quantities to threaten human health?	., 	/ 	-	
7:26-9.4(e)2iii	Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk or finor explosion?	-e	_		1 1 1 1 1 1 1
7:26-9.4(e)2iv	Damage the structural integrity of the device or facility containing the waste?		<u></u>		
7:26-9.4(e)2v	Threaten human health or the environment?	_	-		1
7:26-11.2	Tanks			·	r
	What are the approximate number and size of tanks containing hazardous waste?  Company chartified of tanks) To TS8-1, TS8-2, TS8-3, TS8-4  (2500 gal) (4000 gal) (4000 gal)(4000 gal)	lueno, <del>m</del> j	IPA	, unide	lifu
	Identify the waste treated stored in each tank.  TS8-1 > Tolume  TS8-2 > FPA  TS8-3 - TPA  TS8-4 - down know  General Operating Requirements	•			
7:26-11.2(a)2	Are hazardous wastes or treatment reagents placed in the tank that could cause the tank or its inner liner to rupture, leak or corrode? but a usual discussion.  If yes, please explain.		<u>~</u>	_	
	•				•

Are there leaking tanks?

•		YES	NO	N/A
7:26-11.2(a)2	Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger or rupture corrosion, leaks or other failures?	s, <u>·</u>		
7:26-11.2(3)	Do uncovered tanks have at least 2 feet of freeboard or an adequate containment structure?			_
7:26-11.2(a)4	If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank, e.g., bypass system to a standby tank?		-	
7:26-11.2(c)	Inspections			
•	Is the tank(s) inspected for:	٠		:
whether	<ol> <li>Discharge control equipment (each operating day)</li> <li>Monitoring equipment (each operating day)</li> </ol>		<u>/</u>	<u></u>
love the first	<ol> <li>Level of waste in tank (each operating day)</li> </ol>			
W.A.	<ol><li>Construction of materials of the tank (weekly)</li></ol>			
	<ol> <li>Are the tanks and surrounding areas (e.g., dike) inspected weekly for leaks, corrosion or other failures (weekly)?</li> </ol>			· · · · · · · · · · · · · · · · · · ·
7:26-9.2(b)	Are there underground tanks used to store hazardous waste?		<u>.</u>	
•	If yes, how many and can they be entered for inspection?		*****	
•	Has the underground tank been in use on or before November 19, 1980? Specify date.		-	
	If no, when was the tank placed in use?			
7:26-11.2(e)	Are ignitable or reactive wastes stored in a manner which protects them from a source of ignition or reaction?	<u>~</u>	<i>-</i>	· .— .
	If no, please explain.  mplayer aren't allowed & sinche	nevy	sel	wents

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•		<u>AE2</u>	NO	N/A
7:26-11.2(f)	Does it appear that incompatible wastes are being stored separate from each other?	1/		
7:26-9.2(b)3i	Does the facility have a groundwater monitoring plan approved by the Department?	-	<u>/</u>	
7:26-9.2(b)3ii	Is the use of the tank specified to the manufacturers recommended lifetime?			
7:26 <b>-</b> 10.5(e)6	Are the underground tanks subjected to periodic integrity testing?			

# ARSYNCO, INC. CLOSURE PLAN

### ID# NJ044688935

Arsynco, Inc. Closure Plan to be put into effect when the following conditions are met.

- 1. When the officers and stockholders of Arsynco, Inc. decide that the plant operated in Carlstadt, New Jersey (Bergen County) will be closed. We will proceed with the following plan for closure or the amended plan for closure if there are any amendments to the original Closure Plan. We will:
  - A. While in Interim Status, the written Closure Plan will be kept at Arsynco, Inc.
  - B. While in Interim Status, the written Closure Plan will be presented to the Regional Administrator at least 180 days before closure is expected to begin.
  - \*C. The Closure Plan must be approved, modified or disapproved within 90 days of receipt and after providing the owner or operator and the affected public (through a newspaper notice) the opportunity to submit written comments.
  - D. When the Closure Plan is approved by the Regional Administrator and within 90 days of generating the final volume of hazardous waste, Arsynco, Inc. will treat all hazardous waste in storage or remove them from the facility in accordance with the approved Closure Plan.
  - E. Within six months after generating the final volume of hazardous waste and in accordance with the approved Closure Plan, closure activities must be completed. Unless:
    - 1. The Regional Administrator may approve a longer Closure period under Part 265.112(c) if Arsynco, Inc. can demonstrate that the required or planned closure activities will,

PAGE 2.

of necessity, take longer than six months to complete and we have taken all steps to eliminate any significant threat to human health and the environment from the unclosed but inactive facility.

- 2. Hazardous waste that is stored in containers for disposal offsite will be shipped in D.O.T. containers, by an EPA approved transporter to an EPA approved landfill or incinerator for disposal by EPA approved method.
- Hazardous waste that is stored in containers for recovery offsite will be shipped in D.O.T. approved drums. The transporter shall be EPA approved and the company doing the recovery shall be EPA approved. (The company doing the recovery must be approved as a generator because they will be generating the residue from the recovery of these products).
- Hazardous waste that is stored in tanks. The recovered hydrocarbons that are stored in tanks and is covered under Part 261.6(b) (they are listed and we store them before using them as fuel in our boiler) are used as fuel in our boiler together with #6 fuel oil. We do not generate enough hydrocarbon to use in our boiler every day so at closure the tanks will be empty. The residue that is left in these tanks will be removed and the tanks cleaned. The residue will be disposed of by an EPA approved method.
  - 5. The hazardous waste area (tank area and drum area) and the area surrounding the hazardous waste areas will be cleared and cleaned of all hazardous material. The hazardous waste and the cleaning from the hazardous waste cleanup will be disposed of in an EPA approved manner.
  - 6. When closure is completed, all facility equipment and structures will be properly disposed of, or decontaminated by removing all hazardous waste and residues and the waste and residues disposed of in an EPA approved manner. (NOTE)

PAGE 3.

- 7. Arsynco, Inc. will submit to the Regional Administrator certification signed by an officer of Arsynco, Inc. and an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved Closure Plan.
- It is our estimate on this day, May 18th, 1981, that the maximum inventory of waste in our tanks on any given date would be 20,000 gallons.
- 9. It is our estimate on this date, May 18th, 1981 that the maximum number of drums in our hazardous waste drum area would be 200 drums.
- 10. March 7th, 1984 we have approximately 12,000 gals. of hazardous waste in our tanks, and 107 drums of hazardous waste in our hazardous waste drum area.
- 11. It is our estimate that it would take \$12,000 to dispose of the hazardous waste drums, \$10,000 to clean and dispose of the residue from the tanks, \$28,000 to clean the buildings, equipment and grounds and to dispose of the hazardous residue from these oleanings.
- NOTE: We (Arsynco, Inc.) are a batch manufacturer of many different chemical compounds. The steps needed to clean and remove residue from our equipment will depend on what that equipment was used for last. Generally the residue would be soluble in water or some other solvent. The equipment would be cleaned with the appropriate material or materials to remove the contaminant. The hazardous residues would be disposed of by an EPA approved method.

President

# ARSYNCO, INC.

# AMENDMENT TO CLOSURE PLAN AS REQUIRED BY N.J.D.E.P.

- 1. Arsynco, Inc. facility is located on 12.9 acreas of which 10 acreas are developed. Arsynco, Inc. is a manufacturer of Specialty Organic Chemicals, and we are a batch operation. There are six manufacturing buildings, one machine shop, one boiler-room, two buildings for shipping & receiving, one building for the Q.C. Lab, supervisors offices and locker-room, one building for R&D, one building that houses the main office and employee lunch and locker-room, and two other buildings that are used for storage. There are forty tanks on site that are used to store raw materials and solvents for recycling (solvents for recycling are stored in 10 of the tanks).
- 2. Arsynco, Inc. has on site:
  - (a) Solvents for recycling.
    - I. Toluene
    - II. Xylene
    - III. Methanol
    - IV. Isopropyl Alcohol
    - V. Methylene Chloride
    - VI. 1,1,1 Trichloroethane
  - (b) The residue from the recycling of these solvents.
  - (c) Still bottom residue from distillation.
- 3. Tank description including #, capacity, location above or below ground and the specific type of waste stored:

TANK NO.	CAPACITY	LOCATION ABOVE OR BELOW GROUND	TYPE OF SOLVENTS FOR RECYCLING
TS-71	6,333 gals.	above ground	Distilled Xylene
TS-100	1,000 gals.	11 11	Xylol, Methanol
TS-62	3,772 gals.	tr II	Rec. Xylene
TS-70	500 gals.	n n	Rec. Methylene Chloride
TS-80	500 gals.	11 11	n n
TS-58	2,600 gals.	4° 10	Rec. Isopropyl Alcohol
TS-78	19,800 gals.	i2	Rec. Toluol
TS-8-1	3,500 gals.		Rec. Toluol
TS-8-2	3,500 gals.		Rec. Methanol
TS-8-3	3,000 gals.	tt II	Rec. Isopropyl Alcohol

- 4. Milestone chart for final closure, including time required for completion of inventory and decontamination of facility.
  - (a) While in Interim Status, the written closure plan will be presented to the N.J.D.E.P. Commissioner at least 180 days before closure is expected to begin. When the closure plan is approved by the N.J.D.E.P. Commissioner, closure will begin using the following timetable.
    - I. Inventory removal 6 weeks.
    - II. Decontamination of facility 2 weeks.
  - (b) Removing all inventory/waste.
    - I. Quantity of decontamination residue 2000 gals., 2,000 gals. waste water.
    - II. Distance to off-site TSDF 25 miles (SCA) CECOS-450 miles.
  - III. Estimate of the amount of contaminated soil none.
  - (c) Decontaminating the facility.
    - I. Area of the facility with potential soil contamination.
      - 1. Tank farm.
      - 2. Tank wagon unloading area.
      - Hazardous waste drum storage area.
  - II. Method and procedures for removing and disposing of contaminated soil.
    - 1. If contaminated soil is found on the facility site it will be dug up (to the depth of the contamination) and placed in disposal drums for disposal in an approved land fill following all local, state and federal regulations.
  - III. Soil sample test locations, depths, analysis to be conducted and parameter and rationals for selection of these parameters.
  - (1) Soil sample test locations.
  - (a) West side of tank farm (upgradient from tank farm).

    East side of tank farm (downgradient from tank farm).
  - (b) West side of hazardous waste drum storage area upgradient from hazardous waste drum storage area. East side of hazardous waste drum storage area downgradient from hazardous waste drums storage area.

- (c) Analysis to be conducted and rationale for selection.
- 1. GC/MS analysis to be performed looking for the materials that were stored in these areas.
- IV. List all equipment and/or facilities where contamination could exist.
  - (a) Tanks #TS-71, TS-71, TS-100, TS-62, TS-70, TS-80, TS-58, TS-78, TS-8-1, TS-8-2 and TS-8-3.
  - (b) Tank wagon unloading area.
  - (c) Hazardous waste drums storage area.
- V . Method and procedure for decontaminating all equipments and/ or facility grounds.
  - (a) Equipments will be pumped or vacuumed out, washed with solvent or water to remove the last bit of residue. Facility grounds if contaminated will be dug up and replaced with clean fill. The contaminated residues from the cleanup will be disposed of as follows and in accordance with all local, state and federal regulations.
- VI. Method for disposing of residue resulting from decontamination.
  - Decontamination of tanks residue and solvents washing of tank will be incinerated by a TSDF following all local, state and federal regulations.
  - Contaminated soil (if any) will be disposed of in a landfill following all local, state and federal regulations.
  - (D) Cost Estimate:

1.	Decontamination of tanks	_	\$10,000
2.	Soil sampling/analysis		4,000
3.	Professional engineer		•
	Certification of closure	-	10,000
4.	Cost of any auxiliary		
	equipment, if required	-	5,000
5.	Cost of contractor, if		
	required	-	5,000
6.	Contingency cost	-	5,000

39,000

# ARSYNCO, INC. FACILITY

The Arsynco, Inc. facility is located at the Foot of 13th Street in the Borough of Carlstadt, in Bergen County. The facility consists of 12.9 acres (10 acres are usable). There are 14 buildings at the facility. Arsynco, Inc. is in operation five days a week, 24 hours a day. (At times due to demand for product the operation goes for six days.) On the days that the plant is not operating, there is a guard service from Friday night at 11 p.m. to 12 o'clock Sunday night. (The third shift starts working at 11:30 p.m. Sunday night.) There are 60-70 employees divided into three shifts.

Arsynco, Inc.'s facility is served by the Hackensack Water Co., Public Service Electric & Gas Company. Arsynco has a non-contact cooling water pond of 500,000 gallons and a well that supplies water to the pond. All buildings (except the two dry storage tanks) have sprinklers (automatic) with alarms that go off when the sprinklers are operating. The sprinkler lines are supplied with water from Berry Street and 13th Street. (If one line is out of service, we can draw water from the other line.) There are fire extinguishers on each floor of each building. There are three large  ${\rm CO}_2$  extinguishers on wheels, three hose houses (two with foam), and fire hoses in our three main manufacturing buildings (No. 1, 6 and 8).

Arsynco, Inc. has a main tank farm on the south side of the facility and a smaller tank farm on the northeast side of the facility. There is a hydrogen tank farm on the east side of the facility (tanks in tank farm are diked). Raw materials and finished goods are stored on the west side of the facility.

The main entrance to Arsynco, Inc. is by way of 13th Street. In case of an emergency, the gate at the Foot of Berry Street is opened. Entrance to the Berry Street entrance is by way of Route 17 (north bound).

Arsynco, Inc. manufactures specialty pharmaceuticals and organic chemicals by batch manufacturing processes only. Arsynco, Inc.'s fire insurance company is Industrial Risk Insurers and they inspect our facility at least once a year. The facility was inspected in 1986 by the Carlstadt Fire Department and we do have a fire alarm permit.



P.O. Box 8 • Carlstadt, N.J. 07072 201-933-2323

# Manufacturing Facilities at Carlstadt Plant

# Bldg #1 Area "A"

In this area various organic acids are reacted with phosgene at 80°C. with steam on the reactor jackets. The phosgene is introduced below the local surface. As a result of the reaction HCL and CO2 vapor is produced which, in turn, entrains a small amount of phosgene. These gases are past through the water scrubber to absorb the HCL and then on to a methanol scrubber where the excess phosgene is reacted to form the Methyl Chlorformate and Methyl Carbonate. The unabsorbed CO2 is exhausted to the atmosphere to a "vent. There are four reactors in this area and they share scrubbing equipment. When the reactions are completed the units are put under low vacuum and the excess gases dissolved in the reaction mass are removed through these same scrubbing systems. Heat is then applied to the reactors to complete the removal of excess gases and also distill some of the solvent in which the reactions are performed.

# Bldg #1 Area "B"

This area not being used at the present time for manufacturing purposes.

# Bldg. #1 Area "C"

Located in this area are two hot oil heated vacuum distillation units. The materials manufactured in Area A are distilled at this point. There are no atmosphere vents as the vacuum equipment discharges are scrubbed with water and are emitted through our chemical waste system. Venting of these vessels is only performed upon completion of the distillation and the reactor has been cooled down.

# Bldg. #1

This area is presently being reconstructed and we are expecting to perform operations similar to Area A utilizing scrubbing systems for the excess phospene and other gases.

#### Bldg. #5

This area is used for atmospheric drying to solid products. The products contain about 10% solvents such as alcohol, toluene and xylene. The drying cycle normally takes 48 hours with an emission of approximately 300/lbs solvent over this period of time.

### Bldg. #6

Distillation of solvents is accomplished in this building with conventional still pots, distillation columns and condensers. The emission to the atmosphere only occurs on the condenser vent at which time the solvents are cooled and have low vapor pressures.

In addition, we manufacture an ester in a hot oil heated reactor. The solvent and products are refluxed back to the reactor during the course of this reaction. As this reaction involves high boiling compounds there are very low vapor pressures on the atmospheric v ent side of the condenser. Additional reaction equipment in this area is used in the manufacture of an organic acid performed under atmospheric conditions at temperature not in excess of 100°. The solvent in these reactions is water. The only volumetric compound used during the course of this reaction is ammonia which is reacted and therefore, produces no air emissions.

OHAPIT

### Bldg. #8

This building is a multi-story manufacturing building containing reactors, crystallizers and centrifuges and autoclaves. There are approximately fifty different chemical compounds made in this area, most using solvents as a reacted medium such as toluol, alcohol and xylene. In all instances where the reactants are to be heated and refluxed there are conden sers directly connected to the vessels. The only vessels that have vents leading directly to the atmosphere without any air pollution control devices would be a group of stainless steel crystallizers which are operated at temperatures well below the boiling points of the solvents. (to 10°C.) The centrifuges are exhausted to the atmosphere through a ventilation system. There would be small amounts of solvent emissions through these ventilation systems but we believe they are below the threshold limits required by the State.

There is a general ventilation system in various parts of this building which pick up air at local points to provide safe atmosphere for the operations. These ventilation systems are exhausted through blowers directly to the atmosphere.

# B ldg. #19

This area is used for the manufacture of Propylene Imine from Isopropanolamine. The reaction takes place in a conventional jacketed reactor in reflux conditions. Here too, the venting is done through a condenser and the vapor pressure of the various compounds at this point is low enough to preclude measurable air emissions. The vacuum drier located in this building has as a source of vacuum a steam jet assembly. This, in effect, will

# Manufacturing Facilities at Carlstadt Plant

-3-

# Bldg. #19 (continued)

immediately dissolve any air pollutants and the discharge of these is condensed and put into our chemical sewer.

In all manufacturing areas the various reactors have safety devices installed on the process side. These are normally rupture discs made of carbon or stainless steel. From time to time and completely out of our control, these discs may burst and thus emit relatively large quantities of pollutants into the atmosphere. These are not used as a means of control or part of our operation.

Other areas in the plant are non-manufacturing areas used for warehousing of raw materials and finished goods.

EA/bg

# RAW MATERIAL LIST

#### PRODUCT

3A Alc 12A Alc Allyl Chloride Amm Thiocyanate 45/50% Aqua Ammonia Benzaldehyde ∠Benzaldehyde FFC / Benzyl Chloride Butyl Lactate Butyric Anhy Caustic Soda 50% Caustic Soda Flake Celite o Chlor Benzaldehyde Chlorine V Chlorpropionic Acid Clove Oil Coumarin Tech √2-6 Dichlorbenzaldehyde √40% Dimethylamine pimethyl Formamide TDimethyl Sulfate DIPE Drierite m Ethanolamine Ethyl Acetate Ethyl Aceto Acetate Ethylene Oxide Falmex (0-155)Gallic Acid Heptane Hydrogen Hydroxyl Amine Sul. Hexane Diol Hylene T Igepal co-630 ? Isophorone Isopropanol m Isopropanolamine J-Sperse-35 Lauryl Pyridinium Cl Mapo-9102 Methanol m Methylamine-40% Methyl Salicy. Methylene Chloride Muriatic Acid Niax LG-56-1 Nitric Acid o Nitro Chlorbenzene Nitroflour Aniline Norite ✓ Phenol

✓ Phosgene

Phosphoic Acid

# PRODUCT

O.B.

opylene Oxide tassium Carbon opanol ropiophenone aney Catalyst esorcinol alt oda Ash odium Acetate odium Bicarbonate odium Bichromate odium Nitrite olvesso 100 tearic Acid ulfuric Acid 66' rartaric Acid MA roluol Trichlorethylene Tyzor TPT Versene Powder Xylene



#### PROCESS SERVICE

#### OTHER

Many other process services are available and we invite your inquiries with regard to such services. Whether the problem be one of Etherification, Esterification, Distillation, Friedl-Crafts, Chlorination, or Bromination, we think it would be to your benefit to take advantage of the prompt service and experience which back up our Organic Chemicals Department.

To summarize, our equipment is of varied design and construction. We have a wide range of reaction vessels constructed of glass, stainless steel, copper, iron, steel and monel which can be fitted with appropriate condensers and receivers. These vessels are serviced with vacuum, Dowtherm, steam, brine and water. Our separation facilities include rubber-lined, stainless steel, monel and copper centrifuges; ceramic-lined vacuum filters and filter presses, with iron aluminum, and Heresite plates.



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#### PROCESS SERVICE

#### REDUCTION AND HYDROGENATION

We are equipped to handle your reductions in the low to medium pressure range (100-350 lbs./sq. in. working pressures). Proper selection of catalyst systems will be recommended for your product. This includes a broad working experience with Raney-Nickel catalysts. Also, our technical staff and production facilities are available to assist you in special hydrogenation problems. For example, partial or selective hydrogenation of one or more functional groups has been efficiently processed.

# ACID CHLORIDES

We have an extensive history in the manufacture of aliphatic, aromatic and heterocyclic acid chlorides. We have developed unique techniques using glass equipment and high vacuum distillation whereby we can produce acid chlorides which are light in color, free from sulfur, or other inorganic impurities and assaying better than 98%.

#### PHOSGENATIONS

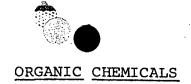
We handle Phosgene in large quantities and are prepared to make products such as Isocyanates, Carbamyl Chlorides, Chloroformates, Ureas, Carbodiimides and others.

#### METHYLATION

Methylation requires experience in the handling and manufacturing of the materials necessary to perform this function. These materials are quite toxic and corrosive, requiring special equipment and handling in order to insure a safe operation. Our background and know-how enable us to conduct these operations and to select the best solvent and reagent to answer particular problems. The result is the purest product at the lowest possible cost.

Continued.





# INDUSTRIAL - Cont'd

#### PRODUCT

#### SYNONYM

Propenyl Methyl Guaethol (PMG)

1-Ethoxy-2-Methoxy-4-Propenyl Benzene

Propylene Imine

2-Methyl Aziridine

Terephthaloyl Chloride

Trimellitic Anhydride Mono Acid Chloride (TMAC)

1,2-Benzene Dicarboxylic Anhydride-4-Formyl Chloride

3,4,5-Trimethoxy Benzoic Acid

3,5,5-Trimethyl Cyclohexanol (TMC)

# TEXTILE CHEMICALS

Aseptoform, Butyl

Butyl-p-Hydroxybenzoate

Aseptoform, Methyl

Methyl-p-Hydroxybenzoate

Aseptoform, Propyl

Propyl-p-Hydroxybenzoate

Ethyl Stearate

ITP 63, 67

Imine Terminated Polymers

MAPO

Tris- $\sqrt{1}$ -(2-Methyl)-Aziridinyl $\sqrt{-}$ Phosphine Oxide

Polypropylene Imine

Poly-/2-Methyl Aziridine/

Propylene Imine

2-Methyl Aziridine



# INDUSTRIAL - Cont'd

# PRODUCT

### SYNONYM

Isophthaloyl Chloride

ITP 63, 67

MAPO, (Regular & Rocket Grades)

MAPS

2-Methyl-2-n-Propyl-1,3-Propanediol

Mustard Oil

m-Nitro Benzoyl Chloride

p-Nitro Benzyl Cyanide

p-Nitrophenyl Acetic Acid

Parabens -- (See Aseptoform)

Phenacetyl Chloride

Phenoxy Propanol-2

Phenyl MAPO

Polypropylene Imine

Imine Terminated Polymers

Tris- $\sqrt{1}$ -(2-Methyl)-Aziridiny $\sqrt{1}$ -Phosphine Oxide

Tris- $\sqrt{1}$ -(2-Methyl)-Aziridiny $\sqrt{1}$ Phosphine Sulfate

Allyl Isothiocyanate

Phenyl-bis- $\sqrt{2}$ -Methyl Aziridine/-Phosphine Oxide

Poly-/2-Methyl Aziridine/



# INDUSTRIAL - Cont'd

#### PRODUCT

#### SYNONYM

Cyclol Acrylate 2-Hydroxymethyl-5-Norbornene Acrylate Cyclol Methacrylate 2-Hydroxymethyl-5-Norbornene Methacrylate N, N-Dibenzyl Amine N,N-Dimethyl Benzyl Amine Diethyl Carbamyl Chloride Diethyl Succinate 2-Hydroxymethy1-5-Dihydro Cyclol Norbornane Dimethyl Carbamyl Chloride Dimethyl Hydroquinone p-Dimethoxy Benzene Dimethyl Resorcinol 1,3-Dimethoxy Benzene Dimethyl Succinate

Ethyl Stearate

Ethyl Ethylene Imine

Eugenol

Glycerol Dichlorohydrin

Glycerol-d-Monochlorohydrin

2-Ethyl Aziridine

1,3-Dichloropropanol-2

3-Chloro-1,2-Propanediol



# AROMATICS, COSMETICS & FLAVORANTS - Cont'd

PRODUCT

SYNONYM

Trimethyl Cyclohexanol (TMC)

3,5,5 -Trimethyl Cyclo-

hexanol

Vananote

p-Methoxy Acetophenone

INDUSTRIAL

Allyl Isothiocyanate

Mustard Oil

Acryloyl Chloride

Anisoyl Chloride

Anti-Oxidant 221

Aseptoform, Methyl Tech.

Aseptoform, Propyl Tech.

Benzylamine

Catechol Disodium Sulfonate

Cinnamoyl Chloride

Cyclan Methyl Anhydride

Cyclan 100

Cyclan 200, 230, 330

Cyclol

p-Methoxy Benzoyl Chloride

p-Hydroxy Anisole

Methyl-p-Hydroxybenzoate

Propyl-p-Hydroxybenzoate

Trimellitic Anhydride Esters

2-Hydroxymethyl-5-Norbornene



# AROMATICS, COSMETICS & FLAVORANTS - Cont'd

#### PRODUCT

#### SYNONYM

Cyclonol

3,5,5-Trimethylcyclohexanol

Diethyl Succinate

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Dimethyl Hydroquinone

p-Dimethoxy Benzene

Dimethyl Succinate

Ethyl Stearate

Homomenthyl Salicylate 🔑 💪

Salicylic Acid, 3,5,5 -Trimethyl Cyclohexanol Ester

Melilotin

N1156

Dihydro Coumarin

Methyl Anisate

Methyl-p-Methoxy Benzoate

Methyl Eugenol

3,4'-Dimethoxy-1-Allyl Benzene

Methyl Isoeugenol John

3,4'-Dimethoxy-1-Propenyl Benzene

Parabens (See Aseptoform)

1-Ethoxy-2-Methoxy-4-

Propenyl Benzene

Propenyl Methyl Guaethol (PMG)

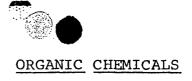
a,a,a-Trichloro Methyl Phenyl Carbinyl Acetate

Rosetone

Methylbenzyl Acetate

Tolyl Acetate





# PHARMACEUTICALS & PHARMACEUTICAL INTERMEDIATES - Cont'd

# PRODUCT

Mephenesin NF

Methyl Nicotinate

2-Methyl-2-n-Propyl-1,3-Propanediol

Parabens (See Aseptoform)

Phenacetyl Chloride

a-Phenoxy Propionyl Chloride

Propadrine Hydrochloride

P.M.I. Chloride

3,4,5-Trimethoxy Benzoic Acid

#### SYNONYM

3-Chloro-1,2-Propanediol

3-0-Tolyloxy-1,2-Propanediol

Pyridine-3-Carboxylic Acid Methyl Ester

Phenyl Propanolamine Hydrochloride

3-Phenyl-5-Methylisoxazoyl-4-Carbonyl Chloride

# AROMATICS, COSMETICS & FLAVORANTS

STREET, STREET,

Anti-Oxidant 221

Aseptoform, Methyl USP

Aseptoform, Propyl USP

Butyl Butyryl Lactate

p-Hydroxy Anisole

Methyl-p-Hydroxybenzoate

Propyl-p-Hydroxybenzoate

2-Butyryl Propionic Acid,

Butyl Ester



### PHARMACEUTICALS & PHARMACEUTICAL INTERMEDIATES

# PRODUCT

# SYNONYM

INODUCI	STHONTH
Acetyl Glycol Salicylate	
Anti-Oxidant 221 🥀 🔑	p-Hydroxy Anisole
Aseptoform, Methyl USP //	Methyl-p-Hydroxybenz
Aseptoform, Propyl USP	Propyl-p-Hydroxybenz
Benzylamine	
p-Chlor Benzyl Cyanide	
Chlorazole Chloride	3-(o-Chlorophenyl)-5 Methylisoxazoyl-4- Carbonyl Chloride

Diazole Chloride 3-(2',6'-Dichlorophe 5-Methylisoxazoyl-4-Carbonyl Chloride

2,6-Dimethoxybenzoic Acid Mark

Dimethyl Resorcinol & ....

1,3-Dimethoxy Benzen

Ethanol Amide of Gentisic Acid

**8** -Hydroxy Ethyl Gent

2-Ethoxy-l-Naphthoyl Chloride

Glycerol Dichlorohydrin

Glycerol Guaiacolate 5560

1,3-Dichloro Propano

3-(o-Methoxyphenoxy)
Propanediol

STACK	14			1	0170k £		
STACK   CERT   COND   STATUS   EXP. DAT   COMPANY DESTIGNATION   LAST INS BY   MISCELLANGUS   INSPECTIONS   OLY   OLY	PLANT ID	COUNTY	MUNICIPALITY	BUSINESS NAME		PLANT NAME	PLANT CONTAC
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O05	•				EXP. DAT	COMPANY DESIGNATION MISCELLANEOUS INSPECTIONS	LAST INS BY
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O10		•	007 008	DELETE DELETE		TANK TS-62 TANK TS-64	
O13		•	010	peret		TANK TS-71 TANK TS-78	en e
014 DELETE METHYLENE CHLORIDE 12/07/82 080 015 DELETE TANK TK-401 03/12/86 088 016 DELETE TANK TK-402 03/26/84 080 017 DELETE TANK TS-68 018 DELETE TANK TS-68 019 GRAN TANK TS-53 08/03/89 629 020 GRAN TANK TS-54 08/03/89 629 021 DELETE TANK TS-55 06/02/87 099 022 DELETE TANK TS-56 06/02/87 099 023 DELETE TANK TS-56 06/02/87 099 024 DELETE TANK TS-58 025 DELETE TANK TS-58 025 DELETE TANK TS-69 026 DELETE TANK TS-69 027 DELETE TANK TS-69 028 DELETE TANK TS-69 029 DELETE TANK TS-69 030 DELETE TANK TS-96 06/02/87 099 031 DELETE TANK TS-96 06/02/87 099 032 DELETE TANK TS-43						TANK 107	12/07/82 080
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DENOTES UNDEFINED STATUS

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DENOTES UNDEFINED STATUS

